

**LOGBOOK REQUIREMENTS
REVISED - DECEMBER 10, 1986**

NOTE: ALL LANGUAGE SHOULD BE FACTUAL AND OBJECTIVE

1. Record on front cover of the Logbook:

TDD No.
Site Name
Site Location
Project Manager

2. All entries are made using ink.

3. Statement of Work Plan discussion and distribution to field team with team member signatures.

4. Sign and date each page.

5. A single line is drawn through error.
Date and initial each correction.

6. Report weather conditions.

7. Provide general site description and remarks.

8. Sample data or reference to sample sheets:

Date
Time
Record calibration of any instruments used
Sample location (Station # and brief description)
Sample designation (grab or composite)
Sample type (water, soil, etc.)
Sample analyses and preservatives (VOA, metals, etc.)
Sample identification #
Tag #
Sampler's name
In situ field measurements

9. Maintain photo log by completing the stamped information at the end of the logbook.

10. If no site representative is on hand to accept the receipt for samples an entry to that effect must be placed in the logbook.

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Onsite Pathway/General Considerations

- Confirm the location of the site on topographic map(s).
- How accessible is the site to non-employees?
- How accessible is the waste itself?
- Is there visible damage in surrounding areas - i.e., to flora, fauna, or off-site property?
- Are there persons residing or going to school onsite?
- Determine distance and direction from the site to the nearest residence, school, or day-care facility.
- Make an overview of population density within a one-mile radius of the site.

Groundwater Route

- Distance to the nearest well?
- Are there wells close enough to the site for future sampling (SSI phase)?
- Are there public supplies with wells in the 4-mile radius?
 - Obtain depths, locations, distribution areas, populations served.
 - Obtain well logs, if available.
- Locate private wells within 4 miles and determine depths.
- Are there persons drinking groundwater with no alternate unthreatened source readily available?
- Is groundwater used for irrigation?
 - Determine type of crops and estimate of acreage.

Surface Water Route

- Is there surface water onsite?
- Is there visible evidence of leachate or direct surface water discharge?
- Make a review of potential and actual surface water migration pathways from the site, overland and in-water. (Confirm "lay of the land" shown on topo.)
- Is surface water used for drinking, recreation, or irrigation?
- Determine location of intake (s) if drinking or irrigation use exists.
- Distance limit in flowing water is 15 stream miles from probable point of entry into surface water (2 mile overland limit).
- Distance limit for static water intakes is also 15 miles from probable point of entry.
- Are there wetlands in the vicinity of the site?
- Are there drainage areas upgradient of the site?

* See additional guidance for evaluation of the site based on HRS2 criteria.

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[illegible]

not with fresh lime at bottom.
He should use very strong water.
Kittlingers live - he will starve if he
city of Bremen. For anyone in the city
must be in the public water supply system
the water is pumped from the
of bathing. All the rest

2

Concentration of inhibitor (mole/l)	Rate of polymerization (mole/l-hr)
0	0.001
0.0001	0.0008
0.0002	0.0006
0.0004	0.0004
0.0006	0.0003
0.0008	0.0002
0.001	0.0001

Figure 1 is a line graph with the x-axis labeled 'Number of hauls' ranging from 1 to 10, and the y-axis labeled 'Percentage of total catch' ranging from 0 to 100. There are two data series: 'P. setiferus' (represented by a solid line with open circles) and 'P. setiferus + P. setiferus + P. setiferus' (represented by a dashed line with open circles). The 'P. setiferus' series starts at approximately 10% for 1 haul, rises to about 25% for 2 hauls, and then jumps to approximately 85% for 3 hauls, remaining relatively stable at that level for 4 to 10 hauls. The 'P. setiferus + P. setiferus + P. setiferus' series starts at approximately 10% for 1 haul, rises to about 25% for 2 hauls, and then increases more gradually to approximately 45% for 10 hauls.

Number of hauls	P. setiferus (%)	P. setiferus + P. setiferus + P. setiferus (%)
1	10	10
2	25	25
3	85	35
4	85	40
5	85	42
6	85	43
7	85	44
8	85	44
9	85	45
10	85	45

100



2

[illegible]

1. The first part of the paper is devoted to a general discussion of the problem of the existence of a solution of the system of equations (1) for arbitrary values of the parameters α and β . It is shown that the system has a solution for arbitrary values of the parameters α and β if and only if the condition $\alpha + \beta = 1$ is satisfied.

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WORK PLAN TO CONDUCT
A SITE SCREENING INVESTIGATION
MONSANTO TEXTILES COMPANY
BLACKSBURG, SOUTH CAROLINA
TDD NO. F4-8801-30
REVISION 0
JANUARY 18, 1988

NOTE: SEE ATTACHED TDD.

Technical Approach: As described in Phase I of attached TDD

Project Manager: Jerri Higgins

Other Personnel: As required

Report/Final Product: Letter Report including a Preliminary HRS and an EPA Form 2070-13 if applicable

Review By: Murray Warner and/or his designee

Date Work Will Start: January 18, 1988

Submittal Date for Deliverable: The Letter Report will be submitted to EPA within 15 days of completion of evaluation

The following portions of the Quality Assurance Manual are applicable:

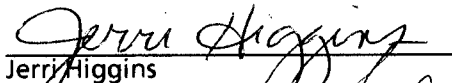
QAR 2.0, 4.0, 8.0, 13.0, 14.0, 15.0, 16.0
QAP 2.5, 4.1, 8.1, 8.2, 8.4, 13.1, 14.1, 15.1, 16.7

No analytical data will be generated as a result of this work.

Field activities will be limited to reconnaissance and target survey.


Records for this project shall include: a) Work Plan b) Logbook c) Deliverables as cited above
d) Photographs

Preparer:


Jerri Higgins

Date: 1/22/88

Review/Approval:


Quality Assurance Representative

Date: 1/25/88

Review/Approval:


Regional Project Manager

Date: 1/22/88

1.A. COST CENTER: N/A		FIT ZONE I CONTRACT CONTRACT NO. 68-01-7346 TECHNICAL DIRECTIVE DOCUMENT (TDD)		2. NO.: F4-8801-30	
1.B. ACCOUNT NO.: SC29SI				2.A.: <input checked="" type="checkbox"/> NEW ASSIGNMENT <input type="checkbox"/> AMENDMENT	
3.A. PRIORITY: <input type="checkbox"/> HIGH <input checked="" type="checkbox"/> MEDIUM <input type="checkbox"/> LOW		4.A. ESTIMATE OF TECHNICAL HOURS: 370		5.A. SSID NO.: N/A	
				6. DESIRED REPORT FORM <input checked="" type="checkbox"/> FORMAL REPORT <input type="checkbox"/> FORMAL BRIEFING <input checked="" type="checkbox"/> LETTER REPORT <input type="checkbox"/> OTHER (SPECIFY):	
3.B. KEY EPA CONTACT: Scott Gardner NAME: PHONE: 347-2234 Ext.39		4.B. ESTIMATE OF SUBCONTRACT COST: N/A		5.B. EPA SITE NAME: Monsanto Textiles Company	
				5.C. CITY/COUNTY/ STATE: Blacksburg/ Cherokee/SC	
				7.A. START DATE: 1/18/88	
				7.B. ESTIMATED COMPLETION DATE: N/A	
8. TYPE OF ACTIVITY: <input type="checkbox"/> PA <input checked="" type="checkbox"/> SI <input type="checkbox"/> ESI <input type="checkbox"/> HRS SUPPORT <input type="checkbox"/> QA SUPPORT <input type="checkbox"/> SPECIAL STUDIES <input type="checkbox"/> ENFORCEMENT SUPPORT <input type="checkbox"/> TRAINING <input type="checkbox"/> EQUIPMENT MAINTENANCE <input type="checkbox"/> GENERAL TECHNICAL ASSISTANCE <input type="checkbox"/> PROGRAM MANAGEMENT					
9. GENERAL TASK DESCRIPTION: Conduct a site screening investigation (SSI) in a two (2) phase approach. Phase I: Conduct a site assessment to identify further work and establish a preliminary HRS score. Phase II: Conduct additional SSI work as required.					
10. SPECIFIC ELEMENTS: Phase I 1) Prepare work plan. 2) Obtain and review file material. 3) Conduct target surveys (travel to site and/or government office as required). 4) Evaluate information and prepare PHRS and letter report. Phase II 1) Prepare safety plan, prepare study plan, amend work plan. 2) Conduct field activities. 3) Prepare draft report 4) Prepare final report <input type="checkbox"/> ADDITIONAL SCOPE ATTACHED 5) Project close out.				11. INTERIM DEADLINES: (upon assignment) 15 days after completion of evaluation 45 days after receipt of analytical data 10 days after receipt of EPA comments	
12. COMMENTS:					
13. AUTHORIZING: <input type="checkbox"/> RPO <input type="checkbox"/> DPO <input type="checkbox"/> PO _____ <div style="text-align: center;">(SIGNATURE)</div>				14. DATE:	
15. RECEIVED BY: <input type="checkbox"/> ACCEPTED <input type="checkbox"/> ACCEPTED WITH EXCEPTIONS (ATTACH) <input type="checkbox"/> REJECTED _____ <div style="text-align: center;">(CONTRACTOR FITOM SIGNATURE)</div>				16. DATE:	

<u>Number</u>	<u>Subject</u>
QAR 2.0	Quality Assurance Program
QAP 2.5	Work Plans
QAR 3.0	Acquisition of Evidentiary Data
QAP 3.1	Collection of Evidentiary Field Data
QAP 3.2	Data Reduction, Validation, and Reporting of Evidentiary Data
QAR 4.0	Inspections
QAP 4.1	Offsite Reconnaissance
QAP 4.2	Onsite Inspections
QAR 5.0	Procurement Document Control
QAP 5.1	Preparation of Procurement Documents
QAP 5.2	Subcontractor Quality Assurance Requirements
QAR 6.0	Control of Purchased Items and Services
QAP 6.1	Control of Subcontractor Procurement Activities
QAP 6.2	Evaluation and Selection of Subcontractors
QAR 8.0	Document Control
QAP 8.1	Controlled and Accountable Documents
QAP 8.2	Issuance and Distribution of Controlled Documents
QAP 8.4	Technical Reports
QAR 9.0	Identification and Control of Laboratory Samples
QAP 9.1	Chain-of-Custody
QAP 9.2	Sample Control
QAR 11.0	Control of Measuring and Test Equipment
QAP 11.1	Implementation of Measuring and Test Equipment Controls
QAR 12.0	Handling, Storage, and Shipping of Hazardous Materials
QAP 12.1	Packaging, Marking, Labeling, and Shipping of Samples from Hazardous Waste Sites
QAR 13.0	Control of Nonconformances
QAP 13.1	Nonconformance Reporting, Evaluation, and Disposition
QAR 14.0	Corrective Action
QAP 14.1	Implementation and Documentation of corrective Actions
QAR 15.0	Quality Assurance Records
QAP 15.1	Storage and Retrieval of Quality Assurance Records and SPD Project Files
QAP 15.2	Control of Duplicate Quality Assurance Records
QAR 16.0	Audits and Surveillances
QAP 16.6	Quality Notice
QAP 16.7	Surveillances

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**LEVEL**

NOTEBOOK NO. 311

F4-679Monsanto TextilesTDD # F4-8801-30Blacksburg, South CarolinaProject Mgr: Terri Higgins

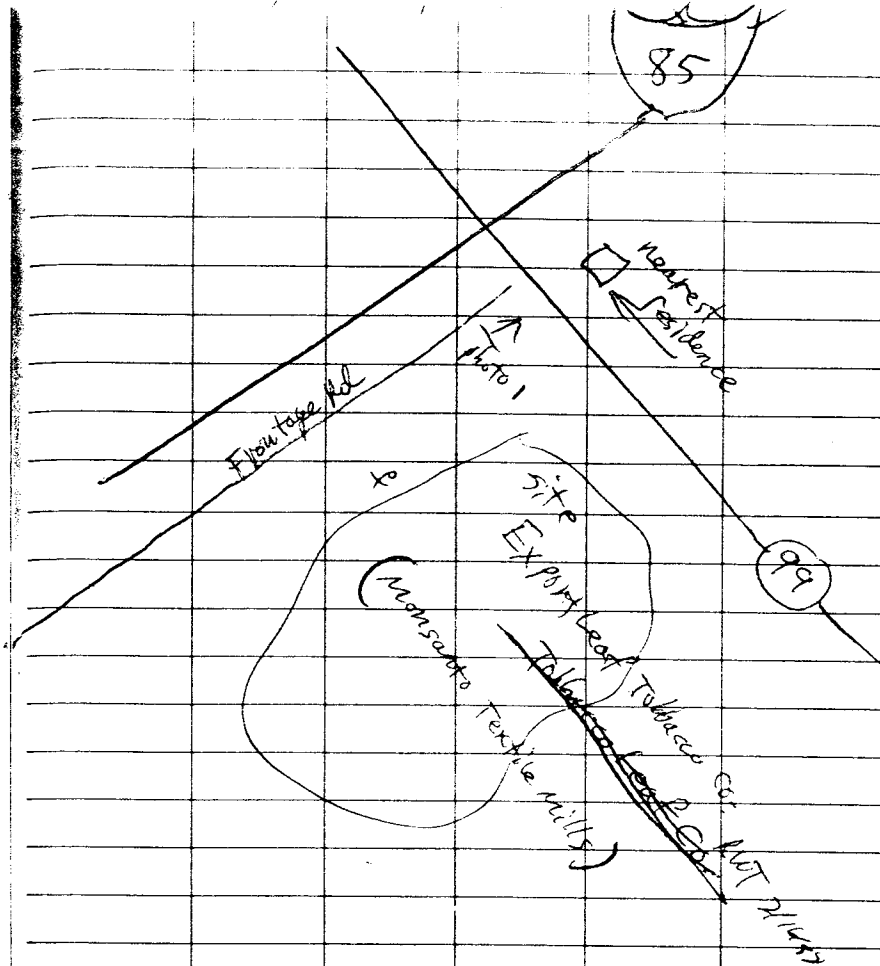
2-16-88 14:00

met with Mr. Dick Robinson of the Public Works Dept. in Gaffney. He said to go to The City Ald. in Blacksburg to meet with Mr. Reed Love who will be able to supply us with water line information. Mr. Robinson told us that the Gaffney Public Works Dept. obtains their water from two sources, one, an intake in the Broad River, also, an intake on Lake Welch. Both are outside the 4 mile radius of concern.

14:30

net with Reed Love of Blackburg.
He showed us maps showing water
distribution lines. He said that it is a
city ordinance that anyone in the city
must be on the public water supply system.
Their water is provided for ^{rent} ~~rent~~ ^{rent} ~~rent~~ by the City
of Gaffney's Public Works Dept.

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Field

2-16-88 1500

met with Mayor W.W. McCarter & Grover, N.C. He gave us a city map and marked the location of their public supply wells. Their water system serves 250 connections. Their wells are between 200' to 300' deep.

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NUS CORPORATION AND SUBSIDIARIES**TELECON NOTE****CONTROL NO.****DATE:** May 13, 1988**TIME:** 1020**DISTRIBUTION:**

Monsanto Textiles Company
F4-8801-30

BETWEEN: Mr. Reed Love, Town
Manager

OF: Blacksburg S. C.

PHONE: (803) 839-2332

AND: Jerri Higgins: NUS FIT 4

DISCUSSION:

Mr. Love confirmed the fact that the Blacksburg water intake and treatment plant had been shut down. The town of Blacksburg had originally planned to modernize the plant, but has since decided that it is more cost effective to continue master-metering water from Gaffney. There are no plans to reopen the Blacksburg plant.

Jerri Higgins 5/27/88

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#7



Potential Hazardous Waste Site

Site Inspection Report



Site Inspection Report



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION	
01 STATE SC	02 SITE NUMBER D001700863

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site) Monsanto Textiles Company		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER Hwy. I-85 P.O. Box 165				
03 CITY Blacksburg	04 STATE SC	05 ZIP CODE 29702	06 COUNTY Cherokee		07 COUNTY CODE 21	08 CONG DIST 05
09 COORDINATES LATITUDE 35° 08' 57.7" N LONGITUDE 081° 29' 03.9" W		10 TYPE OF OWNERSHIP (Check one) <input checked="" type="checkbox"/> A. PRIVATE <input type="checkbox"/> B. FEDERAL <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input type="checkbox"/> E. MUNICIPAL <input type="checkbox"/> F. OTHER				

III. INSPECTION INFORMATION

01 DATE OF INSPECTION 8, 7, 87 MONTH DAY YEAR		02 SITE STATUS <input type="checkbox"/> ACTIVE <input checked="" type="checkbox"/> INACTIVE	03 YEARS OF OPERATION 1968, 1982 BEGINNING YEAR ENDING YEAR		UNKNOWN	
04 AGENCY PERFORMING INSPECTION (Check all that apply) <input type="checkbox"/> A. EPA <input type="checkbox"/> B. EPA CONTRACTOR <input type="checkbox"/> C. MUNICIPAL <input type="checkbox"/> D. MUNICIPAL CONTRACTOR <input checked="" type="checkbox"/> E. STATE <input type="checkbox"/> F. STATE CONTRACTOR <input type="checkbox"/> G. OTHER						
05 CHIEF INSPECTOR Thomas J. Dziekan		06 TITLE		07 ORGANIZATION SCDHEC	08 TELEPHONE NO. 803 734-5200	
09 OTHER INSPECTORS		10 TITLE		11 ORGANIZATION	12 TELEPHONE NO. ()	
					()	
					()	
					()	
					()	
					()	
					()	
13 SITE REPRESENTATIVES INTERVIEWED Ernest Dixon		14 TITLE assis.mgr.	15 ADDRESS Monsanto/Export Leaf Tobacco Company (present facility)		16 TELEPHONE NO. 803 839-2717	
					()	
					()	
					()	
					()	
					()	
					()	
					()	
17 ACCESS GAINED BY (Check one) <input type="checkbox"/> PERMISSION <input type="checkbox"/> WARRANT		18 TIME OF INSPECTION		19 WEATHER CONDITIONS		

IV. INFORMATION AVAILABLE FROM

01 CONTACT John Cresswell/T. Dziekan		02 OF (Agency/Organization) SCDHEC - EQC - BSHWM		03 TELEPHONE NO. 803 734-5200	
04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM Jerri Higgins		05 AGENCY	06 ORGANIZATION NUS Corp.	07 TELEPHONE NO. (404) 938-7710	08 DATE 05, 11, 88 MONTH DAY YEAR



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
SC	D001700863

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)	02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)	03 WASTE CHARACTERISTICS (Check all that apply)
<input type="checkbox"/> A. SOLID <input type="checkbox"/> B. POWDER, FINES <input type="checkbox"/> C. SLUDGE <input type="checkbox"/> D. OTHER _____ (Specify)	<input type="checkbox"/> E. SLURRY <input checked="" type="checkbox"/> F. LIQUID <input type="checkbox"/> G. GAS TONS _____ CUBIC YARDS _____ NO. OF DRUMS _____	<input type="checkbox"/> A. TOXIC <input type="checkbox"/> B. CORROSIVE <input type="checkbox"/> C. RADIOACTIVE <input type="checkbox"/> D. PERSISTENT <input type="checkbox"/> E. SOLUBLE <input type="checkbox"/> F. INFECTIOUS <input type="checkbox"/> G. FLAMMABLE <input type="checkbox"/> H. IGNITABLE <input type="checkbox"/> I. HIGHLY VOLATILE <input type="checkbox"/> J. EXPLOSIVE <input type="checkbox"/> K. REACTIVE <input type="checkbox"/> L. INCOMPATIBLE <input type="checkbox"/> M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			
SOL	SOLVENTS	unknown	unknown	degreasing agents are a possible waste.
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

State Preliminary Assessment with additional information obtained during target survey



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE SC 02 SITE NUMBER D001700863

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☐ A. GROUNDWATER CONTAMINATION

03 POPULATION POTENTIALLY AFFECTED: 1390

02 ☐ OBSERVED (DATE:)

04 NARRATIVE DESCRIPTION

☒ POTENTIAL

☐ ALLEGED

Small amounts of degreasing agents used in cleaning machinery may have been disposed in land fill pits. No documentation to support such actions in file material.

01 ☐ B. SURFACE WATER CONTAMINATION

03 POPULATION POTENTIALLY AFFECTED:

02 ☐ OBSERVED (DATE:)

04 NARRATIVE DESCRIPTION

☒ POTENTIAL

☐ ALLEGED

Intermittent stream tributary to Bee Branch of Buffalo Creek is 500 feet away from site. A 2.8 acre pond near the site could be contaminated if hazardous waste is present.

01 ☐ C. CONTAMINATION OF AIR

03 POPULATION POTENTIALLY AFFECTED:

02 ☐ OBSERVED (DATE:)

04 NARRATIVE DESCRIPTION

☐ POTENTIAL

☐ ALLEGED

unknown

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS

03 POPULATION POTENTIALLY AFFECTED:

02 ☐ OBSERVED (DATE:)

04 NARRATIVE DESCRIPTION

☐ POTENTIAL

☐ ALLEGED

unknown

01 ☐ E. DIRECT CONTACT

03 POPULATION POTENTIALLY AFFECTED:

02 ☐ OBSERVED (DATE:)

04 NARRATIVE DESCRIPTION

☐ POTENTIAL

☐ ALLEGED

Limited access to site and security measure prevent potential direct contact.

01 ☐ F. CONTAMINATION OF SOIL

03 AREA POTENTIALLY AFFECTED:

(Acres)

02 ☐ OBSERVED (DATE:)

04 NARRATIVE DESCRIPTION

☒ POTENTIAL

☐ ALLEGED

Possibility only if hazardous waste is present.

01 ☐ G. DRINKING WATER CONTAMINATION

03 POPULATION POTENTIALLY AFFECTED:

02 ☐ OBSERVED (DATE:)

04 NARRATIVE DESCRIPTION

☒ POTENTIAL

☐ ALLEGED

Possibility only if hazardous waste is present.
Well #3 on property of site is used for drinking water (2100 feet from site)

01 ☐ H. WORKER EXPOSURE/INJURY

03 WORKERS POTENTIALLY AFFECTED: unknown

02 ☐ OBSERVED (DATE:)

04 NARRATIVE DESCRIPTION

☐ POTENTIAL

☐ ALLEGED

Workers are present at new facility -
Export Leaf Tobacco Company.

01 ☐ I. POPULATION EXPOSURE/INJURY

03 POPULATION POTENTIALLY AFFECTED:

02 ☐ OBSERVED (DATE:)

04 NARRATIVE DESCRIPTION

☐ POTENTIAL

☐ ALLEGED

unknown



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

none observed

01 ☐ K. DAMAGE TO FAUNA 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include name(s) of species)

none observed

01 ☐ L. CONTAMINATION OF FOOD CHAIN 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

none observed

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
(Spills/Runoff/Standing liquids, Leaking drums)
03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION

landfill pits are covered

01 ☐ N. DAMAGE TO OFFSITE PROPERTY 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

none observed

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

NA

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

none observed

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

none

III. TOTAL POPULATION POTENTIALLY AFFECTED: 1390 plus 18 workers at Export Leaf Tobacco

IV. COMMENTS

Majority of population obtains drinking water from municipal systems in Blacksburg; water comes from the Broad River and Lake Wheelchel, near Gaffney. Previously Blacksburg used surface water from Buffalo Creek, but closed water treatment plant indefinitely. Grover, N.C. uses groundwater for municipal supply. Remainder of population within three mile radius (1390 people) uses private wells for drinking water.

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

State Preliminary Assessment with additional information obtained during target survey.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 STATE SC 02 SITE NUMBER D001700863

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
<input checked="" type="checkbox"/> A. NPDES	SC 0039802-001	unknown		Domestic WW-treatment
<input type="checkbox"/> B. UIC				lagoon discharges septic waste
<input type="checkbox"/> C. AIR				and low levels of surfactants
<input type="checkbox"/> D. RCRA				
<input type="checkbox"/> E. RCRA INTERIM STATUS				
<input type="checkbox"/> F. SPCC PLAN				
<input checked="" type="checkbox"/> G. STATE (Specify)	IWP-179	02/4/81	02/4/84	Monsanto ceased operations
<input type="checkbox"/> H. LOCAL (Specify)				at this location in 1982
<input type="checkbox"/> I. OTHER (Specify)				this was a permit for disposal
<input type="checkbox"/> J. NONE				of inert & cellulosic waste only

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE	04 TREATMENT (Check all that apply)	05 OTHER
<input type="checkbox"/> A. SURFACE IMPOUNDMENT			<input type="checkbox"/> A. INCENERATION	<input checked="" type="checkbox"/> A. BUILDINGS ON SITE
<input type="checkbox"/> B. PILES			<input type="checkbox"/> B. UNDERGROUND INJECTION	
<input type="checkbox"/> C. DRUMS, ABOVE GROUND			<input type="checkbox"/> C. CHEMICAL/PHYSICAL	
<input type="checkbox"/> D. TANK, ABOVE GROUND			<input type="checkbox"/> D. BIOLOGICAL	
<input checked="" type="checkbox"/> E. TANK, BELOW GROUND	115,000	gal.	<input type="checkbox"/> E. WASTE OIL PROCESSING	
<input checked="" type="checkbox"/> F. LANDFILL	210,000	gal.	<input type="checkbox"/> F. SOLVENT RECOVERY	
<input type="checkbox"/> G. LANDFARM			<input type="checkbox"/> G. OTHER RECYCLING/RECOVERY	
<input type="checkbox"/> H. OPEN DUMP			<input type="checkbox"/> H. OTHER (Specify)	06 AREA OF SITE
<input type="checkbox"/> I. OTHER (Specify)				approx 0.52 (Acres)

07 COMMENTS
Oil spill of #5 oil in excess of 2,000 gallons, from the faulty pressure gauge on a pump for the underground storage tanks. Leak first discovered on December 11, 1971; cleaned up by December 22, 1971 to the satisfaction of state officials.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

☒ A. ADEQUATE, SECURE ☐ B. MODERATE ☐ C. INADEQUATE, POOR ☐ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

Landfill consisted of 5 to 8 pits which were 150 feet long, 19 feet wide, and 15 feet deep. All waste streams limited by permit to inert and cellulosic plant waste. Frequency of covering is every 30 days.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☐ YES ☒ NO

02 COMMENTS

Site bordered by forest-covered mountain and thickly wooded areas. Only one limited access road leading to site. Site was patrolled by security personnel of Monsanto.

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

Update of information from state Preliminary Assessment gathered during target survey



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE SC 02 SITE NUMBER D 001700863

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable)	02 STATUS	03 DISTANCE TO SITE															
<table><tr><td>SURFACE</td><td>WELL</td></tr><tr><td>COMMUNITY A. <input checked="" type="checkbox"/></td><td>B. <input checked="" type="checkbox"/></td></tr><tr><td>NON-COMMUNITY C. <input type="checkbox"/></td><td>D. <input checked="" type="checkbox"/></td></tr></table>	SURFACE	WELL	COMMUNITY A. <input checked="" type="checkbox"/>	B. <input checked="" type="checkbox"/>	NON-COMMUNITY C. <input type="checkbox"/>	D. <input checked="" type="checkbox"/>	<table><tr><td>ENDANGERED</td><td>AFFECTED</td><td>MONITORED</td></tr><tr><td>A. <input type="checkbox"/></td><td>B. <input type="checkbox"/></td><td>C. <input type="checkbox"/></td></tr><tr><td>D. <input type="checkbox"/></td><td>E. <input type="checkbox"/></td><td>F. <input type="checkbox"/></td></tr></table>	ENDANGERED	AFFECTED	MONITORED	A. <input type="checkbox"/>	B. <input type="checkbox"/>	C. <input type="checkbox"/>	D. <input type="checkbox"/>	E. <input type="checkbox"/>	F. <input type="checkbox"/>	A. <u>>15</u> B. <u><3</u> (mi) B. <u>0.4</u> (mi)
SURFACE	WELL																
COMMUNITY A. <input checked="" type="checkbox"/>	B. <input checked="" type="checkbox"/>																
NON-COMMUNITY C. <input type="checkbox"/>	D. <input checked="" type="checkbox"/>																
ENDANGERED	AFFECTED	MONITORED															
A. <input type="checkbox"/>	B. <input type="checkbox"/>	C. <input type="checkbox"/>															
D. <input type="checkbox"/>	E. <input type="checkbox"/>	F. <input type="checkbox"/>															

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☐ A. ONLY SOURCE FOR DRINKING ☒ B. DRINKING
(Other sources available)
COMMERCIAL, INDUSTRIAL, IRRIGATION
(No other water sources available)

☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION
(Limited other sources available) ☐ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER 1380

03 DISTANCE TO NEAREST DRINKING WATER WELL 0.4 (mi)

04 DEPTH TO GROUNDWATER 150 (ft)

05 DIRECTION OF GROUNDWATER FLOW unknown

06 DEPTH TO AQUIFER OF CONCERN _____ (ft)

07 POTENTIAL YIELD OF AQUIFER _____ (gpd)

08 SOLE SOURCE AQUIFER ☐ YES ☐ NO

09 DESCRIPTION OF WELLS (including usage, depth, and location relative to population and buildings)

Well #3 on Monsanto property is 2100 feet (0.4 mi) from site, and is still used today by the current tenants of the facility, Export Leaf Tobacco Co. Grover, N.C. which is less than 3 miles away from the site uses five wells for its public supply (597 persons), which range in depth from 240 to 363 feet deep

10 RECHARGE AREA	11 DISCHARGE AREA
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO COMMENTS	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO COMMENTS 500 feet from tributary stream of Bee Branch

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

☐ A. RESERVOIR, RECREATION DRINKING WATER SOURCE ☐ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES ☐ C. COMMERCIAL, INDUSTRIAL ☒ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
<u>unnamed tributary stream to Bee Branch</u>	<input type="checkbox"/>	<u>0.09</u> (mi)
<u>confluence of Bee Branch & Buffalo Creek</u>	<input type="checkbox"/>	<u>2.9</u> (mi)
	<input type="checkbox"/>	

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN	02 DISTANCE TO NEAREST POPULATION						
<table><tr><td>ONE (1) MILE OF SITE</td><td>TWO (2) MILES OF SITE</td><td>THREE (3) MILES OF SITE</td></tr><tr><td>A. _____ NO. OF PERSONS</td><td>B. _____ NO. OF PERSONS</td><td>C. <u>5126</u> NO. OF PERSONS</td></tr></table>	ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE	A. _____ NO. OF PERSONS	B. _____ NO. OF PERSONS	C. <u>5126</u> NO. OF PERSONS	<u>0.13</u> (mi)
ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE					
A. _____ NO. OF PERSONS	B. _____ NO. OF PERSONS	C. <u>5126</u> NO. OF PERSONS					
03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE <u>101-1000</u>	04 DISTANCE TO NEAREST OFF-SITE BUILDING <u>0.13</u> (mi)						

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

Moderately populated rural area approximately 2 miles northeast of Blacksburg, S.C.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION
01 STATE 02 SITE NUMBER
SC D001700863

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A. 10^{-6} - 10^{-8} cm/sec ☒ B. 10^{-4} - 10^{-6} cm/sec ☐ C. 10^{-4} - 10^{-3} cm/sec ☐ D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☐ A. IMPERMEABLE
(Less than 10^{-6} cm/sec) ☒ B. RELATIVELY IMPERMEABLE
(10^{-4} - 10^{-6} cm/sec) ☐ C. RELATIVELY PERMEABLE
(10^{-2} - 10^{-4} cm/sec) ☐ D. VERY PERMEABLE
(Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK

~100 (ft)

04 DEPTH OF CONTAMINATED SOIL ZONE

unknown (ft)

05 SOIL pH

unknown

06 NET PRECIPITATION

6.0 (in)

07 ONE YEAR 24 HOUR RAINFALL

3.0 (in)

08 SLOPE

SITE SLOPE
7.1 %

DIRECTION OF SITE SLOPE

TERRAIN AVERAGE SLOPE

4.0 %

09 FLOOD POTENTIAL

SITE IS IN unknown YEAR FLOODPLAIN

10

☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE

OTHER

A. >25 (mi)

B. (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

>25 (mi)

ENDANGERED SPECIES:

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL

RESIDENTIAL AREAS: NATIONAL/STATE PARKS,
FORESTS, OR WILDLIFE RESERVES

AGRICULTURAL LANDS
PRIME AG LAND AG LAND

A. 2.0 (mi)

B. 0.2 (mi)

C. unknown (mi) D. unknown (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

The land which Monsanto Textiles Company was located on is bordered by a 260 foot forest-covered mountain to the south and thickly wooded areas to the east and west of the site. Blacksburg, S.C. is located in the Piedmont Physiographic Province in an area of moderate relief at altitudes ranging from 500 to 1000 feet. The area is located in the sub-basin of the Broad River.

VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

1. State Preliminary Assessment with additional information obtained during target survey.
2. South Carolina State Water Assessment, 1983, South Carolina Water Resources Commission.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
SC D0001700863

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER			
SURFACE WATER			
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL			
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS

IV. PHOTOGRAPHS AND MAPS

01 TYPE <input type="checkbox"/> GROUND <input type="checkbox"/> AERIAL	02 IN CUSTODY OF _____ (Name of organization or individual)
03 MAPS <input type="checkbox"/> YES <input type="checkbox"/> NO	04 LOCATION OF MAPS _____

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

No samples were collected

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

State Preliminary Assessment
EPA file material



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
SC D001700863

II. CURRENT OWNER(S)

PARENT COMPANY (If applicable)

01 NAME Export Leaf Tobacco Co.		02 D+B NUMBER unknown		08 NAME NA		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.) I-85 and Hwy 99		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY Blacksburg		06 STATE S.C.	07 ZIP CODE 29702	12 CITY		13 STATE	14 ZIP CODE
01 NAME		02 D+B NUMBER		08 NAME		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	12 CITY		13 STATE	14 ZIP CODE
01 NAME		02 D+B NUMBER		08 NAME		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	12 CITY		13 STATE	14 ZIP CODE
01 NAME		02 D+B NUMBER		08 NAME		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	12 CITY		13 STATE	14 ZIP CODE
01 NAME		02 D+B NUMBER		08 NAME		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	12 CITY		13 STATE	14 ZIP CODE

III. PREVIOUS OWNER(S) (List most recent first)

IV. REALTY OWNER(S) (If applicable; list most recent first)

01 NAME Monsanto Textiles Co.		02 D+B NUMBER SCD001700863		01 NAME NA		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.) 800 N. Lindbergh Blvd (Corporate Office)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY St. Louis		06 STATE MO	07 ZIP CODE 63167	05 CITY		06 STATE	07 ZIP CODE
01 NAME Blacksburg Textile Chemstrand		02 D+B NUMBER unknown		01 NAME		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY Blacksburg		06 STATE SC	07 ZIP CODE 29702	05 CITY		06 STATE	07 ZIP CODE
01 NAME		02 D+B NUMBER		01 NAME		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	05 CITY		06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

State Preliminary Assessment with additional information
obtained during target survey.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
SC 0001700863

II. CURRENT OPERATOR (Provide if different from owner)

OPERATOR'S PARENT COMPANY (If applicable)

01 NAME NA		02 D+B NUMBER		10 NAME NA		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		09 NAME OF OWNER					

III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)

PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)

01 NAME NA		02 D+B NUMBER		10 NAME NA		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					

01 NAME		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					

01 NAME		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

State Preliminary Assessment and additional
information obtained during target survey.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

SC D001700863

II. ON-SITE GENERATOR

01 NAME NA	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE

III. OFF-SITE GENERATOR(S)

01 NAME NA	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME NA	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

State Preliminary Assessment and additional information
obtained during target survey.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
SC D001700863

II. PAST RESPONSE ACTIVITIES

01 <input type="checkbox"/> A. WATER SUPPLY CLOSED 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> B. TEMPORARY WATER SUPPLY PROVIDED 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> C. PERMANENT WATER SUPPLY PROVIDED 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input checked="" type="checkbox"/> D. SPILLED MATERIAL REMOVED 04 DESCRIPTION #5 Oil spill in excess of 2000 gals. — cleanup process removed over 5000 gallons of oil-water mixture. Later sawdust & oil (unknown quantity) were removed and hauled to Monsanto.	02 DATE 12/11/91 to 12/22/91	03 AGENCY Monsanto Textiles Co.
01 <input checked="" type="checkbox"/> E. CONTAMINATED SOIL REMOVED 04 DESCRIPTION sawdust and oil and dirt mixture which had served as a barricade to seeping oil, were removed and placed in a pit on Monsanto property.	02 DATE 12/11 to 12/22 of 1991	03 AGENCY Monsanto Textiles Co.
01 <input type="checkbox"/> F. WASTE REPACKAGED 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> G. WASTE DISPOSED ELSEWHERE 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> H. ON SITE BURIAL 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> I. IN SITU CHEMICAL TREATMENT 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> J. IN SITU BIOLOGICAL TREATMENT 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> K. IN SITU PHYSICAL TREATMENT 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> L. ENCAPSULATION 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> M. EMERGENCY WASTE TREATMENT 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> N. CUTOFF WALLS 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> O. EMERGENCY DIKING/SURFACE WATER DIVERSION 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> P. CUTOFF TRENCHES/SUMP 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> Q. SUBSURFACE CUTOFF WALL 04 DESCRIPTION	02 DATE _____	03 AGENCY _____



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE SC 02 SITE NUMBER D001700863

II PAST RESPONSE ACTIVITIES (Continued)

01 ☐ R. BARRIER WALLS CONSTRUCTED

02 DATE 12/11/71 to 12/22/71 03 AGENCY Monsanto Textiles Co

04 DESCRIPTION

Sawdust placed in open ditch to absorb remaining oil

01 ☐ S. CAPPING/COVERING

02 DATE _____

03 AGENCY _____

04 DESCRIPTION

After area was scraped, straw placed to prevent erosion and soak any remaining oil which might seep from underground.

01 ☐ T. BULK TANKAGE REPAIRED

02 DATE _____

03 AGENCY _____

04 DESCRIPTION

01 ☐ U. GROUT CURTAIN CONSTRUCTED

02 DATE _____

03 AGENCY _____

04 DESCRIPTION

01 ☐ V. BOTTOM SEALED

02 DATE _____

03 AGENCY _____

04 DESCRIPTION

01 ☐ W. GAS CONTROL

02 DATE _____

03 AGENCY _____

04 DESCRIPTION

01 ☐ X. FIRE CONTROL

02 DATE _____

03 AGENCY _____

04 DESCRIPTION

01 ☐ Y. LEACHATE TREATMENT

02 DATE _____

03 AGENCY _____

04 DESCRIPTION

01 ☐ Z. AREA EVACUATED

02 DATE _____

03 AGENCY _____

04 DESCRIPTION

01 ☐ 1. ACCESS TO SITE RESTRICTED

02 DATE _____

03 AGENCY _____

04 DESCRIPTION

01 ☐ 2. POPULATION RELOCATED

02 DATE _____

03 AGENCY _____

04 DESCRIPTION

01 ☐ 3. OTHER REMEDIAL ACTIVITIES

02 DATE _____

03 AGENCY _____

04 DESCRIPTION

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

State Preliminary Assessment and additional information obtained during target survey



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION

01 STATE

02 SITE NUMBER

SC

0001700863

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☐ YES ☒ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

State Preliminary Assessment and additional information
obtained during target survey.

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

General Information

The Potential Hazardous Waste Site, Site Inspection Report form is used to record information collected during, or associated with, an inspection of the site and other information about responsible parties and past response activities.

The Site Inspection Report form contains eleven parts:

- Part 1 — Site Location and Inspection Information
- Part 2 — Waste Information
- Part 3 — Description of Hazardous Conditions and Incidents
- Part 4 — Permit and Descriptive Information
- Part 5 — Water, Demographic, and Environmental Data
- Part 6 — Sample and Field Information
- Part 7 — Owner Information
- Part 8 — Operator Information
- Part 9 — Generator/Transporter Information
- Part 10— Past Response Activities
- Part 11— Enforcement Information

Part 1 — Site Location and Inspection Information contains all of the data elements also contained on the Site Identification and Preliminary Assessment forms required to add a site to the automated Site Tracking System (STS). It is therefore possible to add a site to STS at the Site Inspection stage. Instructions are given below.

Part 2 — Waste Information and Part 3 — Description of Hazardous Conditions and Incidents are used to record specific information about substances, amounts, hazards, and targets, e.g., population potentially affected. Parts 2 and 3 are also contained in the Potential Hazardous Waste Site, Preliminary Assessment form. Information recorded on Part 2 and Part 3 during a preliminary assessment may be updated, added, deleted, or corrected on the Site Inspection Report form.

An Appendix with feedstock names and CAS Numbers and the most frequently cited hazardous substances and CAS Numbers is located behind the instructions for the Site Inspection Report.

A number of the data items collected throughout the Site Inspection Report support the Site Ranking Model. The majority of these data items are found in Part 5 — Water, Demographic, and Environmental Data.

General Instructions

1. Complete the Site Inspection Report form as completely as possible.
2. Starred items (*) are required before inspection information can be added to STS. The system will not accept incomplete inspection information.
3. To add a site to STS at the Site Inspection stage, write "New" across the top of the form and complete items II-01, 02, 03, 04, and 06, Site Name and Location, II-09 Coordinates, and II-10, Type of Ownership.
4. Data items carried in STS, which are identical to those on the Site Identification and Preliminary Assessment forms and which can be added, deleted, or changed using the

Site Inspection Report form, are indicated with a pound sign (#). To ensure that the proper action is taken, outline the item(s) to be added, deleted, or changed with a bright color and indicate the proper action with "A" (add), "D" (delete) or "C" (change).

5. There are two options available for adding, deleting, or changing information supplied on the Site Inspection Report form. The first is to use a new Site Inspection Report form, completing only those items to be added, deleted, or changed. Mark the form clearly, using "A", "D", or "C", to indicate the action to be taken. If only data in STS are to be altered, the Site Source Data Report may be used. Using the report, mark clearly the items to be changed and the action to be taken.

Detailed Instructions

Part 1 Site Location and Inspection Information

- I. **Identification:** Identification (State and Site Number) is the site record key, or primary identifier, for the site. Site records in the STS are updated based on Identification. It is essential that State and Site Number are correctly entered on each form.
 - *I-01 **State:** Enter the two character alpha FIPS code for the state in which the site is located. It must be identical to State on the Site Identification form.
 - *I-02 **Site Number:** Enter the ten character alphanumeric code for sites which have a Dun and Bradstreet or EPA "user" Dun and Bradstreet number or the ten character numeric GSA identification code for federal sites. The Site Number must be identical to the Site Number on the Site Identification and Preliminary Assessment forms.
- II. **Site Name and Location:** If Site Name and Location information require no additions or changes, these items are not required on the Site Inspection Report form. However, completing these items will facilitate use of the completed form and records management procedures.
 - #II-01 **Site Name:** Enter the legal, common, or descriptive name of the site.
 - #II-02 **Site Street:** Enter the street address and number (if appropriate) where the site is located. If the precise street address is unavailable for this site, enter brief direction identifier, e.g., NW Jct I-295 & US 99; Post Rd, 5 mi W of Rt. 5.
 - #II-03 **Site City:** Enter the city, town, village, or other municipality in which the site is located. If the site is not located in a municipality, enter the name of the municipality (or place) which is nearest the site or which most easily locates the site.
 - #II-04 **Site State:** Enter the two character alpha FIPS code for the state in which the site is located. The code must be the same as in item I-01.
 - #II-05 **Site Zip Code:** Enter the five character numeric zip code for the postal zone in which the site is located.

- #II-06 Site County: Enter the name of the county, parish (Louisiana), or borough (Alaska) in which the site is located.
- #II-07 County Code: Enter the three character numeric FIPS county code for the county, parish, or borough in which the site is located. (The regional data analyst can furnish this data item.)
- #II-08 Site Congressional District: Enter the two character number for the congressional district in which the site is located.
- *#II-09 Coordinates: Enter the Coordinates, Latitude and Longitude, of the site in degrees, minutes, seconds, and tenths of seconds. If a tenth of a second is insignificant at this site, enter "0" in the tenths position.
- #II-10 Type of Ownership: Check the appropriate box to indicate the type of site ownership. If the site is under the jurisdiction of an activity of the federal government, enter the name of the department, agency, or activity. If Other is indicated, specify the type of ownership and name.

III. Inspection Information

- *III-01 Date of Inspection: Enter the date the inspection occurred, or began for multiple day inspections.
- *III-02 Site Status: Check the appropriate box(es) to indicate the current status of the site. Active sites are those which treat, store, or dispose of wastes. Check Active for those active sites with an inactive storage or disposal area. Inactive sites are those at which treatment, storage, or disposal activities no longer occur.
- #III-03 Years of Operation: Enter the beginning and ending years (or beginning only if operations at the site are on-going), e.g., 1878/1932, of site operation. Check Unknown if years of operation are not known.
- *III-04 Agency Performing Inspection: Check the appropriate box(es) to indicate parties participating in the inspection. If contractors participate, provide the name of the firm(s).
- III-05 Chief Inspector: Enter the name of the chief, or lead inspector.
- III-06 Title: Enter the Chief Inspector's title, e.g., Team Leader, FIT team.
- III-07 Organization: Enter the name of the organization where the Chief Inspector is employed, e.g., EPA - Region 4, VA State Health Dept., Environmental Research Co.
- III-08 Telephone Number: Enter the Chief Inspector's area code and local commercial telephone number.
- III-09 Other Inspectors: Enter the names of other parties participating in the inspection.
- III-10 Title: Enter the titles of other parties participating in the inspection.
- III-11 Organization: Enter the names of the organizations where other parties participating in the inspection are employed.
- III-12 Telephone Number: Enter the area code and local commercial telephone numbers of other parties participating in the inspection.

- III-13 Site Representatives Interviewed: Enter the names of individuals representing responsible parties interviewed in connection with the inspection. Interviews do not necessarily occur during the inspection.
- III-14 Title: Enter the titles of the individuals interviewed.
- III-15 Address: Enter the business, mailing, or residential addresses of the individuals interviewed.
- III-16 Telephone Number: Enter the area code and local commercial telephone numbers of the individuals interviewed.
- III-17 Access Gained By: Check the appropriate box to indicate whether access to the site was gained through permission or warrant.
- III-18 Time of Inspection: Using a 24-hour clock, enter the time the inspection began, e.g., for 3:24 p.m. enter 1524.
- III-19 Weather Conditions: Describe the weather conditions during the site inspection, especially any unusual conditions which might affect results or observations taken.

IV. Information Available From

- IV-01 Contact: Enter the name of the individual who can provide information about the site.
- IV-02 Of: If appropriate, enter the name of the public or private agency, firm, or company and the organization within the agency, firm, or company of the individual named as Contact.
- IV-03 Telephone Number: Enter the area code and local telephone number of the individual named as contact.
- IV-04 Person Responsible for Site Inspection Report Form: Enter the name of the individual who was responsible for the information entered on the Site Inspection Report form. The person responsible for the Site Inspection Report form may be different from the individual who prepared the form.
- IV-05 Agency: Enter the name of the Agency where the individual who is responsible for the Site Inspection Report form is employed.
- IV-06 Organization: Enter the name of the organization within the Agency.
- IV-07 Telephone Number: Enter the area code and local telephone number of the individual who is responsible for the Site Inspection Report form.
- IV-08 Date: Enter the date the Site Inspection Report form was prepared.

Part 2 Waste Information

- *I. Identification: Refer to Part 1-I.
- II. Waste States, Quantities, and Characteristics: Waste States, Quantities, and Characteristics provide information about the physical structure and form of the waste, measures of gross amounts at the site, and the hazards posed by the waste, considering acute and chronic health effects and mobility along a pathway.

- *II-01 **Physical States:** Check the appropriate box(es) to indicate the state(s) of waste present at the site. If Other is indicated, specify the physical state of the waste.
 - *II-02 **Waste Quantity at Site:** Enter estimates of amounts of waste at the site. Estimates may be in weight (Tons) or volume (Cubic Yards or Number of Drums). Use as many entries as are appropriate; however, measurements must be independent. For example, do not measure the same amounts of waste as both tons and cubic yards.
 - *II-03 **Waste Characteristics:** Check all appropriate entries to indicate the hazards posed by waste at the site. If waste at the site poses no hazard, check Not Applicable.
- III. **Waste Category:** General categories of waste typically found are listed here. Enter the estimated gross amount of each category of waste and the appropriate unit of measure.
- *III-01 **Gross Amount:** Gross Amount is the estimate of the amount of the waste category found at the site. Estimates should be furnished in metric tons (MT), tons (TN), cubic meters (CM), cubic yards (CY), drums (DR), acres (AC), acre feet (AF), liters (LT), or gallons (GA). Enter the estimated amount next to the appropriate waste category.
 - *III-02 **Unit of Measure:** Enter the appropriate unit of measure, MT (metric tons), TN (tons), CM (cubic meters), CY (cubic yards), DR (number of drums), AC (acres), AF (acre feet), LT (liters), or GA (gallons) next to the estimate of gross amount.
 - III-03 **Comments:** Comments may be used to further explain, or provide additional information, about particular waste categories.
- IV. **Hazardous Substances:** Specific hazardous, or potentially hazardous, chemicals, mixtures, and substances found at the site are listed here. For each substance listed those data items marked with an "at" sign (@) must be included.
- @IV-01 **Category:** Enter in front of the substance name the three character waste category from Section III which best describes the substance, e.g., OLW (Oily Waste).
 - @IV-02 **Substance Name:** Enter one of the following: the name of the substance registered with the Chemical Abstract Service, the common or accepted abbreviation of the substance, the generic name of the substance, or commercial name of the substance.
 - @IV-03 **CAS Number:** Enter the number assigned to the substance when it was registered with the Chemical Abstract Service. Refer to the Appendix for most frequently cited CAS Numbers. CAS Numbers must be furnished for each substance listed. If a CAS Number for this substance has not been assigned, enter "999".
 - @IV-04 **Storage/Disposal Method:** Enter the type of storage or disposal facility in which the substance was found: SI (surface impoundment, including pits, ponds, and lagoons), PL (pile), DR (drum), TK (tank), LF (landfill), LM (landfarm), OD (open dump).

IV-05 **Concentration:** Enter the concentration of the substance found in samples taken at the site.

IV-06 **Measure of Concentration:** Enter the appropriate unit of measure for the measured concentration of the substance found in the sample, e.g., MG/L, UG/L.

V. Feedstocks

V-01 **Feedstock Name:** If feedstocks, or substances derived from one or more feedstocks, are present at the site, enter the name of each feedstock found. See the Appendix for the feedstock list.

V-02 **CAS Number:** Enter the CAS Number for each feedstock named. See the Appendix for feedstock CAS Numbers.

VI. **Sources of Information:** List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.

Part 3 Description of Hazardous Conditions and Incidents

*I. **Identification:** Refer to Part 1—I.

II. Hazardous Conditions and Incidents:

II-01 **Hazards:** Indicate each hazardous, or potentially hazardous, condition known, or claimed, to exist at the site.

II-02 **Observed, Potential, or Alleged:** Check Observed and enter the date, or approximate date, of occurrence if a release of contaminants to the environment, or some other hazardous incident, is known to have occurred. In cases of a continuing release, e.g., groundwater contamination, enter the date, or approximate date, the condition first became apparent. If conditions exist for a potential release, check potential. Check Alleged for hazardous, or potentially hazardous, conditions claimed to exist at the site.

II-03 **Population Potentially Affected:** For each hazardous condition at the site, enter the number of people potentially affected. For Soil enter the number of acres potentially affected.

II-04 **Narrative Description:** Provide a narrative description, or explanation, of each condition. Include any additional information which further explains the condition.

II-05 **Description of Any Other Known, Potential, or Alleged Hazards:** Provide a narrative description of any other hazardous, or potentially hazardous, conditions at the site not covered above.

III. **Total Population Potentially Affected:** Enter the total number of people potentially affected by the existence of hazardous, or potentially hazardous, conditions at the site. Do not sum the numbers shown for each condition.

IV. **Comments:** Other information relevant to observed, potential, or alleged hazards may be entered here.

- V. Sources of Information:** List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.

Part 4 Permit and Descriptive Information

- *I. Identification:** Refer to Part 1—I.

II. Permit Information

- II-01 Type of Permit Issued: Check the appropriate box(es) to indicate the types of permits issued to the site. If state, local, or other types of environmental permits have been issued, specify the type.
- II-02 Permit Number: Enter the permit number for each issued permit.
- II-03 Date Issued: Enter the date each permit was issued.
- II-04 Expiration Date: Enter the date each permit expires or expired.
- II-05 Comments: Enter any information which further explains the types of permits issued or status of the permits.

III. Site Description

- *III-01 Storage/Disposal: Check the appropriate box(es) to indicate the types of storage/disposal facilities found at the site. If Other is checked, specify the type of facility.
- *III-02 Amount: Enter the gross amount of waste associated with each type of storage/disposal facility. Amounts may be measured in: metric tons, tons, cubic meters, cubic yards, drums, acres, acre feet, liters, or gallons.
- *III-03 Unit of Measure: Enter the appropriate unit of measure for each entry. Units of measure are MT (metric tons), TN (tons), CM (cubic meters), CY (cubic yards), DR (drums), AC (acres), AF (acre feet), LT (liters), or GA (gallons).
- *III-04 Treatment: If waste is treated at the site, check the appropriated box(es) to indicate treatment methods used. If Other is checked, specify treatment method.
- III-05 Other: If there are buildings on site, check this box.
- *III-06 Area of Site: Enter total area of site in acres.
- III-07 Comments: Enter any other pertinent information.

- IV. Containment:** Containment is a measure of the natural or artificial means taken to minimize or preclude health hazards and to minimize or prevent contamination of the environment from waste at the site.

- *IV-01 Containment of Wastes: Check the appropriate box to indicate the condition of containment measures at the site. When choosing the appropriate box, consider the potential for environmental contamination, i.e., the worst case for containment in conjunction with the most hazardous substances.
- IV-02 Description of Drums, Diking, Liners, Barriers: Provide a narrative description of the condition of containment measures at the site, e.g., waste adequately contained, drums rusting and leaking, diking collapsing, liners leaking and contaminants leaching into soil and groundwater.

- V. Accessibility:** Accessibility is an indicator of the potential for direct contact with hazardous substances.

- *V-01 Waste Easily Accessible: If there are no real barriers preventing human access to hazardous waste, check Yes, otherwise check No.

- V-02 Comments: Additional information about accessibility to hazardous waste may be provided.

- VI. Sources of Information:** List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.

Part 5 Water, Demographic, and Environmental Data

- *I. Identification:** Refer to Part 1—I.

II. Drinking Water Supply

- II-01 Type of Drinking Water Supply: Check the appropriate box(es) to indicate the types and sources of drinking water within the vicinity of the site. Community refers to municipal sources. Non-community refers to private sources, e.g., private wells.
- II-02 Status: Check the appropriate box(es) to indicate whether the water supply is endangered or affected by contaminants from the site. Check the appropriate box to indicate if the water supply is being monitored for possible contamination.
- II-03 Distance to Site: Enter the distance in miles to the nearest tenth, hundredth, or thousandth (as needed to indicate the precision required) from the site to nearest drinking water source.

III. Groundwater

- III-01 Groundwater Use in Vicinity: Check the appropriate box to indicate groundwater use in the vicinity of the site. The concern is to indicate the seriousness of groundwater contamination from waste at the site. Only Source for Drinking indicates that current water sources are limited to wells in the vicinity of the site. Drinking; Commercial, Industrial, Irrigation indicates that groundwater is used for drinking, but that other limited drinking sources are available and that no other sources for these additional uses are available. Commercial, Industrial, Irrigation indicates that groundwater is used for these purposes, but that limited other sources of water are available. Not used, Unuseable indicates that groundwater use in the area is not critical.
- III-02 Population Served by Groundwater: Enter the number of people served by groundwater in the vicinity of the site. Population for the purposes of the Site Inspection Report includes residents and daytime workers and students but excludes transients in the neighborhood or on local highways and roads. When estimating population from aerial photographs or other sources, the conversion factor is 3.8 persons for each dwelling unit or 3 persons per acre in rural areas.

III-03 Distance to Nearest Drinking Water Well: Enter the distance in miles to the nearest tenth, hundredth, or thousandth (as needed to indicate the precision required) from the site to the nearest drinking water well.

III-04 Depth to Groundwater: Enter the depth in feet to groundwater.

III-05 Depth of Groundwater Flow: Enter the cardinal direction of groundwater flow, e.g., NNW.

III-06 Depth to Aquifer of Concern: Enter the depth in feet to the aquifer of concern.

III-07 Potential Yield of Aquifer: Enter the potential yield of the aquifer in gallons per day.

III-08 Sole Source Aquifer: Check the appropriate box to indicate the aquifer of concern is, or is not, a sole source aquifer.

III-09 Description of Wells: Provide a narrative description of wells in the vicinity of the site, including useage, depth, and location relative to population and buildings.

III-10 Recharge Area: Check the appropriate box to indicate the site is located in a recharge area. Comments provide additional information on the recharge area.

III-11 Discharge Area: Check the appropriate box to indicate the site is located in a discharge area. Comments provide additional information on the discharge area.

IV. Surface Water

IV-01 Surface Water Use: Check the appropriate box to indicate surface water use in the vicinity of the site. The order of precedence is Reservoir, Recreation, Drinking Water Source; Irrigation, Economically Important Reserves; Commercial/Industrial; Not Currently Used.

IV-02 Affected/Potentially Affected Bodies of Water: Enter the names of bodies of surface water affected, or potentially affected, by contaminants from the site. List the body of surface water nearest the site first. For each body of water check Affected if contaminants have been identified in samples of the water. Enter the shortest distance from the body of water to the site in miles to the nearest tenth, hundredth, or thousandth (as needed to indicate the precision required).

V. Demographic and Property Information

V-01 Total Population Within: Enter the total population within one (1) mile, two (2) miles, and three (3) miles of the site. Distances are measured from site boundaries. Population for the purposes of the Site Inspection Report includes residents and daytime workers and students but excludes transients in the neighborhood or on local highways and roads. When estimating population from aerial photographs or other sources, the conversion factor is 3.8 persons for each dwelling unit or 3 persons per acre in rural areas.

V-02 Distance to Nearest Population: Enter in miles to the nearest tenth, hundredth, or thousandth (as needed to indicate the precision required) the dis-

tance from the site boundary to the nearest population (one person minimum).

V-03 Number of Buildings Within Two (2) Miles of Site: Enter the number of buildings within two miles from the boundaries of the site.

V-04 Distance to Nearest Off-Site Building: Enter the distance in miles to the nearest tenth, hundredth, or thousandth (as needed to indicate the precision required) from the site boundary to the nearest off-site building.

V-05 Population in Vicinity of Site: Provide a narrative description of the nature of the population within the vicinity of the site. Examples include rural area, small truck farms, urban industrial area, densely populated urban residential area.

VI. Environmental Information

VI-01 Permeability of Unsaturated Zone: Check the appropriate box to indicate the permeability of the earth material above the water table in the vicinity of the site.

VI-02 Permeability of Bedrock: Check the appropriate box to indicate the permeability of the bedrock in the vicinity of the site.

VI-03 Depth to Bedrock: Enter the depth to bedrock in feet.

VI-04 Depth of Contaminated Soil Zone: Enter the depth of the contaminated soil zone in feet.

VI-05 Soil pH: Enter the pH of the soil in the vicinity of the site.

VI-06 Net Precipitation: Enter net precipitation in inches. If net precipitation is not known, subtract the average evaporation figure on the U.S. National Weather Service map showing average annual evaporation in inches from the U.S. Environmental Data Service map showing mean annual precipitation.

VI-07 One Year 24 Hour Rainfall: Enter in inches the figure for one year 24 hour rainfall.

VI-08 Slope: Enter the percentage of site slope, the direction of site slope, and the percentage of the surrounding terrain average slope.

VI-09 Flood Potential: Enter the boundary year for the floodplain in which the site is located. Sites flooded annually are in a 1 (one) year floodplain. Other examples include 10, 20, 50, 100, 500, etc., indicating the probability of flooding within that time period.

VI-10 Site is on Barrier Island, Coastal High Hazard Area, Riverine Floodway: If site is located in one of these areas, check this box.

VI-11 Distance to Wetlands: If applicable, enter the distance in miles to the nearest tenth, hundredth, or thousandth (as needed to indicate the precision required) from the site to the closest wetlands (five acre minimum) for Estuarine and Other types of wetlands.

VI-12 Distance to Critical Habitat: If applicable, enter the distance in miles to the nearest tenth, hundredth, or thousandth (as needed to indicate the precision required) from the site to the nearest critical habitat

of an endangered species. Enter the name(s) of the endangered species.

- VI-13 **Land Use in Vicinity:** Enter the distance in miles to the nearest tenth, hundredth, or thousandth (as needed to indicate the precision required) to the nearest Commercial/Industrial area; Residential Area, National/State Parks, Forests, or Wildlife Reserves; or Agricultural Lands, Prime Ag Land and Ag Land. Prime Ag Land is that crop, pasture, range, or forest land which produces the highest yield in relation to inputs. Ag Land is the remaining agricultural land, frequently considered marginal.

- VI-14 **Description of Site in Relation to Surrounding Topography:** Provide a narrative description of significant or unusual aspects of the surrounding topography in relation to the site. Examples might include: site is in a valley surrounded on all sides by mountains, site is at edge of a river or stream which floods frequently, etc.

- VII. **Sources of Information:** List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.

Part 6 Sample and Field Information

- *I. **Identification:** Refer to Part 1—I.

II. Samples Taken

- II-01 **Number of Samples Taken:** Next to each sample type enter the number of samples of that type taken.
- II-02 **Samples Sent To:** Enter the name of the laboratory or other facility where the samples were sent for analysis.
- II-03 **Estimated Date Results Available:** Enter the estimated date the results are expected to be available.

III. Field Measurements Taken

- III-01 **Type:** Enter the type, e.g., radioactivity, explosivity, organic vapor or gas detection and analysis, reagent type gas detection, of each field measurement taken.
- III-02 **Comments:** Describe results of field measurements, whether they were taken on or off site, and if applicable, the type of disposal facility tested, e.g., drum, surface impoundment, landfill.

IV. Photographs and Maps

- IV-01 **Type:** If photographs of the site have been taken, check the appropriate box(es) to indicate the type.
- IV-02 **In Custody Of:** Enter the name of the organization or person who has custody of the photographs.
- IV-03 **Maps:** Check the appropriate box to indicate that maps of the site area have been prepared or obtained.
- IV-04 **Location of Maps:** If site maps are available, indicate their location, e.g., Region 1 Air and Hazardous Materials Division.

- V. **Other Field Data Collected:** Provide a narrative description of any other field data collected.

- VI. **Sources of Information:** List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.

Part 7 Owner Information

- *I. **Identification:** Refer to Part 1—I.

- II. **Current Owner(s) — Parent Company:** Current owner(s) and parent companies, for those owners which are companies partly or wholly owned by another company, provide locator information about responsible parties. Each Part 7 provides space for four (4) current owners and their respective parent companies. If additional space is required, complete another Part 7.

- II-01 **Name:** Enter the legal name of the owner of the site. The owner may be a firm, government agency, association, individual, etc.
- II-02 **D&B Number:** Where available, enter the owner's D&B (Dun and Bradstreet) number. If the current owner is a federal agency, enter the GSA identification code.
- II-03 **Street Address:** Enter the business, mailing, or residential street address of the owner.
- II-04 **SIC Code:** If applicable, enter the owner's primary SIC Code.
- II-05 **City:** Enter the city of the owner's business, mailing, or residential address.
- II-06 **State:** Enter the two character alpha FIPS code for the state of the owner's business, mailing, or residential address.
- II-07 **Zip Code:** Enter the five digit zip code for the owner's business, mailing, or residential address.
- II-08 **Name:** If the owner is a partly or wholly owned subsidiary of another company, enter the legal name of the owner's parent company.
- II-09 **D&B Number:** Enter the parent company's Dun and Bradstreet number.
- II-10 **Street Address:** Enter the business or mailing street address of the parent company.
- II-11 **SIC Code:** If applicable, enter the parent company's primary SIC code.
- II-12 **City:** Enter the city of the parent company's business or mailing address.
- II-13 **State:** Enter the two character alpha FIPS code for the state of the parent company's business or mailing address.
- II-14 **Zip Code:** Enter the five digit zip code for the parent company's business or mailing address.
- III. **Previous Owner(s):** List previous owners in reverse chronological order, i.e., most recent first. If additional space is required, complete another Part 7.
- III-01 **Name:** Enter the legal name of the previous owner. The previous owner may have been a firm, government agency, association, individual, etc.

- III-02 D&B Number: Enter the previous owner's Dun and Bradstreet number if available. If the previous owner was a federal agency, enter the GSA identification code if available.
- III-03 Street Address: Enter the business, mailing, or residential street address of the previous owner.
- III-04 SIC Code: If applicable, enter the primary SIC Code of the previous owner.
- III-05 City: Enter the city of the previous owner's business, mailing, or residential address.
- III-06 State: Enter the two character alpha FIPS code for the state of the previous owner's business, mailing, or residential address.
- III-07 Zip Code: Enter the zip code of the previous owner's business, mailing, or residential address.
- IV. **Realty Owner(s):** Realty owner applies when the owner leased to another entity property which was used for the storage or disposal of hazardous waste. List current or most recent first.
- IV-01 Name: Enter the legal name of the realty owner. The realty owner may be a firm, government agency, association, individual, etc.
- IV-02 D&B Number: Enter the previous owner's Dun and Bradstreet number if available. If the previous owner was a federal agency, enter the GSA identification code if available.
- IV-03 Street Address: Enter the realty owner's business, mailing, or residential street address.
- IV-04 SIC Code: If applicable, enter the realty owner's primary SIC Code.
- IV-05 City: Enter the city of the realty owner's business, mailing, or residential address.
- IV-06 State: Enter the two character alpha FIPS code for the state of the realty owner's business, mailing, or residential address.
- IV-07 Zip Code: Enter the zip code of the realty owner's business, mailing, or residential address.
- V. **Sources of Information:** List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.
- Part 8 Operator Information**
- *I. **Identification:** Refer to Part 1-I.
- II. **Current Operator—Operator's Parent Company:** Information on operators is applicable when the operator is not the owner.
- II-01 Name: Enter the legal name of the operator. The operator may be a firm, government agency, association, individual, etc.
- II-02 D&B Number: Enter the operator's Dun and Bradstreet number if available. If the operator is a federal agency, enter the GSA identification code if available.
- II-03 Street Address: Enter the operator's business, mailing, or residential street address.
- II-04 SIC Code: If applicable, enter the operator's primary SIC Code.
- II-05 City: Enter the city of the operator's business, mailing, or residential address.
- II-06 State: Enter the two character alpha FIPS code for the state of the operator's business, mailing, or residential address.
- II-07 Zip Code: Enter the zip code of the operator's business, mailing, or residential address.
- II-08 Years of Operation: Enter the beginning and ending years (or beginning only if operations are on-going), e.g., 1932/1948, of operation at the site.
- II-09 Name of Owner: Enter the name of the owner for the period cited for this operator.
- II-10 Name: If applicable, enter the legal name of the operator's parent company.
- II-11 D&B Number: Enter the operator's parent company Dun and Bradstreet number if available.
- II-12 Street Address: Enter the operator's parent company business, mailing, or residential street address.
- II-13 SIC Code: If applicable, enter the operator's parent company primary SIC Code.
- II-14 City: Enter the city of the operator's parent company business, mailing, or residential address.
- II-15 State: Enter the two character alpha FIPS code for the state of the operator's parent company business, mailing, or residential address.
- II-16 Zip Code: Enter the zip code of the operator's parent company business, mailing, or residential address.
- III. **Previous Operator(s)—Previous Operators' Parent Companies**
- III-01 Name: Enter the legal name of the previous operator. The previous operator may be a firm, government agency, association, individual, etc.
- III-02 D&B Number: Enter the previous operator's Dun and Bradstreet number if available. If the previous operator was a federal agency, enter the GSA identification code if available.
- III-03 Street Address: Enter the previous operator's business, mailing, or residential street address.
- III-04 SIC Code: If applicable, enter the previous operator's primary SIC Code.
- III-05 City: Enter the city of the previous operator's business, mailing, or residential address.
- III-06 State: Enter the two character alpha FIPS code for the state of the previous operator's business, mailing, or residential address.
- III-07 Zip Code: Enter the zip code of the previous operator's business, mailing, or residential address.
- III-08 Years of Operation: Enter the beginning and ending years of operation for this operator at the site.
- III-09 Name of Owner: Enter the name of the owner for the period cited for this operator.

- III-10 Name: If applicable, enter the legal name of the previous operator's parent company.
- III-11 D&B Number: Enter the previous operator's parent company Dun and Bradstreet number if available.
- III-12 Street Address: Enter the previous operator's parent company business, mailing, or residential street address.
- III-13 SIC Code: If applicable, enter the previous operator's parent company primary SIC Code.
- III-14 City: Enter the city of the previous operator's parent company business, mailing, or residential address.
- III-15 State: Enter the two character alpha FIPS code for the state of the previous operator's parent company business, mailing, or residential address.
- III-16 Zip Code: Enter the zip code of the previous operator's parent company business, mailing, or residential address.
- IV. **Sources of Information:** List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.

Part 9 Generator/Transporter Information

- *I. **Identification:** Refer to Part 1—I.
- II. **On-Site Generator:** A company or agency, located within the contiguous area of the site and generating waste disposed on the site, is entered here.
 - II-01 Name: If there is an on-site generator, enter the legal name of the on-site generator. The on-site generator may be a firm or government agency.
 - II-02 D&B Number: Where available, enter the on-site generator's D&B (Dun and Bradstreet) number. If the on-site generator is a federal agency, enter the GSA identification code.
 - II-03 Street Address: Enter the business or mailing street address of the on-site generator.
 - II-04 SIC Code: If applicable, enter the on-site generator's primary SIC Code.
 - II-05 City: Enter the city of the on-site generator's business or mailing address.
 - II-06 State: Enter the two character alpha FIPS code for the state of the on-site generator's business or mailing address.
 - II-07 Zip Code: Enter the five digit zip code for the on-site generator's business or mailing address.
- III. **Off-Site Generator(s):** Those companies or agencies off-site who have generated waste which has been disposed at the site are listed here.
 - III-01 Name: Enter the legal name of the off-site generator. The off-site generator may be a firm or government agency.
 - III-02 D&B Number: Where available, enter the off-site generator's D&B (Dun and Bradstreet) number. If the off-site generator is a federal agency, enter the GSA identification code.

- III-03 Street Address: Enter the business or mailing street address of the off-site generator.
- III-04 SIC Code: If applicable, enter the off-site generator's primary SIC Code.
- III-05 City: Enter the city of the off-site generator's business or mailing address.
- III-06 State: Enter the two character alpha FIPS code for the state of the off-site generator's business or mailing address.
- III-07 Zip Code: Enter the five digit zip code for the off-site generator's business or mailing address.

- IV. **Transporter(s):** Those carriers who are known to have transported waste to the site are listed here.
 - IV-01 Name: Enter the legal name of the transporter. The transporter may be a firm, government agency, association, individual, etc.
 - IV-02 D&B Number: Where available, enter the transporter's D&B (Dun and Bradstreet) number. If the transporter is a federal agency, enter the GSA identification code.
 - IV-03 Street Address: Enter the business, mailing, or residential street address of the transporter.
 - IV-04 SIC Code: If applicable, enter the transporter's primary SIC Code.
 - IV-05 City: Enter the city of the transporter's business, mailing, or residential address.
 - IV-06 State: Enter the two character alpha FIPS code for the state of the transporter's business, mailing, or residential address.
 - IV-07 Zip Code: Enter the five digit zip code for the transporter's business, mailing, or residential address.

- V. **Sources of Information:** List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.

Part 10 Past Response Activities

- *I. **Identification:** Refer to Part 1—I.
- II. **Past Response Activities**
 - II-01 Past Response Activities: Check the appropriate box(es) to indicate response activities initiated prior to the passage of CERCLA, December, 1980.
 - II-02 Date: Enter the start date (or approximate date) of the activity.
 - II-03 Agency: Enter the name of the Agency responsible for the activity.
 - II-04 Description: Provide a brief narrative description of the activity.
- III. **Sources of Information:** List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.

SITE INSPECTION REPORT

Part 11 Enforcement Information

*I. **Identification:** Refer to Part 1—I.

II. Enforcement Information

- II-01 Past Regulatory/Enforcement Action: Check the appropriate box to indicate past regulatory or enforcement action at the federal, state, or local level related to this site.
- II-02 Description of Federal, State, Local Regulatory or Enforcement Action: Provide a narrative description

of regulatory or enforcement action to date. Do not include any enforcement action contemplated in the process of development.

III.

Sources of Information: List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.

APPENDIX

I. FEEDSTOCKS

CAS Number	Chemical Name	CAS Number	Chemical Name	CAS Number	Chemical Name
1. 7664-41-7	Ammonia	14. 1317-38-0	Cupric Oxide	27. 7778-50-9	Potassium Dichromate
2. 7440-36-0	Antimony	15. 7758-98-7	Cupric Sulfate	28. 1310-58-3	Potassium Hydroxide
3. 1309-64-4	Antimony Trioxide	16. 1317-39-1	Cuprous Oxide	29. 115-07-1	Propylene
4. 7440-38-2	Arsenic	17. 74-85-1	Ethylene	30. 10588-01-9	Sodium Dichromate
5. 1327-53-3	Arsenic Trioxide	18. 7647-01-0	Hydrochloric Acid	31. 1310-73-2	Sodium Hydroxide
6. 21109-95-5	Barium Sulfide	19. 7664-39-3	Hydrogen Fluoride	32. 7646-78-8	Stannic Chloride
7. 7726-95-6	Bromine	20. 1335-25-7	Lead Oxide	33. 7772-99-8	Stannous Chloride
8. 106-99-0	Butadiene	21. 7439-97-6	Mercury	34. 7664-93-9	Sulfuric Acid
9. 7440-43-9	Cadmium	22. 74-82-8	Methane	35. 108-88-3	Toluene
10. 7782-50-5	Chlorine	23. 91-20-3	Napthalene	36. 1330-20-7	Xylene
11. 12737-27-8	Chromite	24. 7440-02-0	Nickel	37. 7646-85-7	Zinc Chloride
12. 7440-47-3	Chromium	25. 7697-37-2	Nitric Acid	38. 7733-02-0	Zinc Sulfate
13. 7440-48-4	Cobalt	26. 7723-14-0	Phosphorus		

II. HAZARDOUS SUBSTANCES

CAS Number	Chemical Name	CAS Number	Chemical Name	CAS Number	Chemical Name
1. 75-07-0	Acetaldehyde	47. 1303-33-9	Arsenic Trisulfide	92. 142-71-2	Cupric Acetate
2. 64-19-7	Acetic Acid	48. 542-62-1	Barium Cyanide	93. 12002-03-8	Cupric Acetoarsenite
3. 108-24-7	Acetic Anhydride	49. 71-43-2	Benzene	94. 7447-39-4	Cupric Chloride
4. 75-86-5	Acetone Cyanohydrin	50. 65-85-0	Benzoic Acid	95. 3251-23-8	Cupric Nitrate
5. 506-96-7	Acetyl Bromide	51. 100-47-0	Benzonitrile	96. 5893-66-3	Cupric Oxalate
6. 75-36-5	Acetyl Chloride	52. 98-88-4	Benzoyl Chloride	97. 7758-98-7	Cupric Sulfate
7. 107-02-8	Acrolein	53. 100-44-7	Benzyl Chloride	98. 10380-29-7	Cupric Sulfate Ammoniated
8. 107-13-1	Acrylonitrile	54. 7440-41-7	Beryllium	99. 815-82-7	Cupric Tartrate
9. 124-04-9	Adipic Acid	55. 7787-47-5	Beryllium Chloride	100. 506-77-4	Cyanogen Chloride
10. 309-00-2	Aldrin	56. 7787-49-7	Beryllium Fluoride	101. 110-82-7	Cyclohexane
11. 10043-01-3	Aluminum Sulfate	57. 13597-99-4	Beryllium Nitrate	102. 94-75-7	2,4-D Acid
12. 107-18-6	Allyl Alcohol	58. 123-86-4	Butyl Acetate	103. 94-11-1	2,4-D Esters
13. 107-05-1	Allyl Chloride	59. 84-74-2	n-Butyl Phthalate	104. 50-29-3	DDT
14. 7664-41-7	Ammonia	60. 109-73-9	Butylamine	105. 333-41-5	Diazinon
15. 631-61-8	Ammonium Acetate	61. 107-92-6	Butyric Acid	106. 1918-00-9	Dicamba
16. 1863-63-4	Ammonium Benzoate	62. 543-90-8	Cadmium Acetate	107. 1194-65-6	Dichlobenil
17. 1066-33-7	Ammonium Bicarbonate	63. 7789-42-6	Cadmium Bromide	108. 117-80-6	Dichlone
18. 7789-09-5	Ammonium Bichromate	64. 10108-64-2	Cadmium Chloride	109. 25321-22-6	Dichlorobenzene (all isomers)
19. 1341-49-7	Ammonium Bifluoride	65. 7778-44-1	Calcium Arsenate	110. 266-38-19-7	Dichloropropane (all isomers)
20. 10192-30-0	Ammonium Bisulfite	66. 52740-16-6	Calcium Arsenite	111. 26952-23-8	Dichloropropene (all isomers)
21. 1111-78-0	Ammonium Carbamate	67. 75-20-7	Calcium Carbide	112. 8003-19-8	Dichloropropene- Dichloropropene Mixture
22. 12125-02-9	Ammonium Chloride	68. 13765-19-0	Calcium Chromate	113. 75-99-0	2,2-Dichloropropionic Acid
23. 7788-98-9	Ammonium Chromate	69. 592-01-8	Calcium Cyanide	114. 62-73-7	Dichlorvos
24. 3012-65-5	Ammonium Citrate, Dibasic	70. 26264-06-2	Calcium Dodecylbenzene Sulfonate	115. 60-57-1	Dieldrin
25. 13826-83-0	Ammonium Fluoborate	71. 7778-54-3	Calcium Hypochlorite	116. 109-89-7	Diethylamine
26. 12125-01-8	Ammonium Fluoride	72. 133-06-2	Captan	117. 124-40-3	Dimethylamine
27. 1336-21-6	Ammonium Hydroxide	73. 63-25-2	Carbaryl	118. 25154-54-5	Dinitrobenzene (all isomers)
28. 6009-70-7	Ammonium Oxalate	74. 1563-66-2	Carbofuran	119. 51-28-5	Dinitrophenol
29. 16919-19-0	Ammonium Silicofluoride	75. 75-15-0	Carbon Disulfide	120. 25321-14-6	Dinitrotoluene (all isomers)
30. 7773-06-0	Ammonium Sulfamate	76. 56-23-5	Carbon Tetrachloride	121. 85-00-7	Diquat
31. 12135-76-1	Ammonium Sulfide	77. 57-74-9	Chlordane	122. 298-04-4	Disulfoton
32. 10196-04-0	Ammonium Sulfite	78. 7782-50-5	Chlorine	123. 330-54-1	Diuron
33. 14307-43-8	Ammonium Tartrate	79. 108-90-7	Chlorobenzene	124. 27176-87-0	Dodecylbenzenesulfonic Acid
34. 1762-95-4	Ammonium Thiocyanate	80. 67-66-3	Chloroform	125. 115-29-7	Endosulfan (all isomers)
35. 7783-18-8	Ammonium Thiosulfate	81. 7790-94-5	Chlorosulfonic Acid	126. 72-20-8	Endrin and Metabolites
36. 628-63-7	Amyl Acetate	82. 2921-88-2	Chlorpyrifos	127. 106-89-8	Epichlorohydrin
37. 62-53-3	Aniline	83. 1066-30-4	Chromic Acetate	128. 563-12-2	Ethion
38. 7647-18-9	Antimony Pentachloride	84. 7738-94-5	Chromic Acid	129. 100-41-4	Ethyl Benzene
39. 7789-61-9	Antimony Tribromide	85. 10101-53-8	Chromic Sulfate	130. 107-15-3	Ethylenediamine
40. 10025-91-9	Antimony Trichloride	86. 10049-05-5	Chromous Chloride	131. 106-93-4	Ethylene Dibromide
41. 7783-56-4	Antimony Trifluoride	87. 544-18-3	Cobaltous Formate	132. 107-06-2	Ethylene Dichloride
42. 1309-64-4	Antimony Trioxide	88. 14017-41-5	Cobaltous Sulfamate	133. 60-00-4	EDTA
43. 1303-32-8	Arsenic Disulfide	89. 56-72-4	Coumaphos	134. 1185-57-5	Ferric Ammonium Citrate
44. 1303-28-2	Arsenic Pentoxide	90. 1319-77-3	Cresol	135. 2944-67-4	Ferric Ammonium Oxalate
45. 7784-34-1	Arsenic Trichloride	91. 4170-30-3	Crotonaldehyde	136. 7705-08-0	Ferric Chloride
46. 1327-53-3	Arsenic Trioxide				

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POOR LEGIBILITY

**PORTIONS OF THIS DOCUMENT
MAY BE UNREADABLE, DUE TO
THE QUALITY OF THE
ORIGINAL**

South Carolina Department of Health
and Environmental Control

Prater
2/10

2600 Bull Street
Columbia, S.C. 29201

Commissioner
Robert S. Jackson, M.D.

Upper Savannah District
Environmental Quality Control
P-129/One Park Avenue
Greenwood, S.C. 29646
(803) 223-0333



CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Board
Moses H. Clarkson, Jr., Chairman
Gerald A. Kaynard, Vice-Chairman
Oren L. Brady, Jr., Secretary
Barbara P. Nuesse
James A. Spruill, Jr.
William H. Hester, M.D.
Euta M. Colvin, M.D.

October 3, 1986

RECEIVED

Mr. Jerry Rinaldi
Monsanto Chemical Company
P.O. Box 1057
Greenwood, SC 29648-1057

OCT 18 1986
S.C. Dept. of Health & Environmental
Control - Bureau of Solid & Hazardous
Waste Management

RE: Generator Inspection
Monsanto Chemical
SCD000419069
Greenwood County

Dear Mr. Rinaldi:

On September 30, 1986, representatives of this office inspected the above referenced industry for compliance with the generator requirements as specified in the South Carolina Hazardous Waste Management Regulations promulgated pursuant to Section 44-56-10 et. seq. of the 1976 South Carolina Code of Laws, as amended.

Inspection participants are listed below:

Mr. Billy DuPre, S.C.D.H.E.C.
Mr. Jerry Rinaldi, Monsanto Chemical

The following deficiencies were noted during the inspection and require immediate correction.

1. R.61-79.262.23(a)(3) - Manifest

Use of the Manifest - Monsanto must have a completed copy of manifest #6 dated 3/20/86 signed by the facility.

2. R.61-79.262.23(a)(3) - Manifest

Use of the Manifest - Monsanto must submit to the Department a fully completed (signed by the facility) copy of manifests (or other verification of receipt of hazardous wastes) sent to out-of-state facilities within 45 days of the hazardous waste shipment.

Mr. Jerry Rinaldi
Page 2
October 3, 1986

3. R.61-79.262.41 - Recordkeeping and Reporting

Quarterly Reporting - Monsanto must submit first and second quarter reports for 1986.

4. R.61-79.262.42(b) - Recordkeeping and Reporting

Exception Reporting - Monsanto must file an exception report for each hazardous waste manifest for which Monsanto does not have a completed (signed by facility) manifest, if the signed copy is not received by Monsanto within 45 days of shipment.

5. R.61-79.265.52(c) - Contingency Plans and Emergency Procedures

Content of Contingency Plan - Monsanto must have agreements with local police and fire departments, hospitals, contractors (if needed), State and local emergency response teams (including DHEC) to coordinate emergency services. The contingency plan needs to be updated to show current emergency coordinator(s) and list all emergency decontamination equipment.

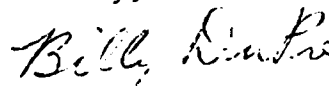
6. R.61-79.265 - Use and Management of Containers

Inspections - Monsanto must inspect areas where containers are stored at least weekly, looking for leaking containers and deterioration of containers.

Information stating compliance with these requirements must be submitted to this office by November 3, 1986. An unannounced follow-up inspection to verify compliance will be conducted at a later date.

A copy of the completed checklist is attached for your information. If you have any questions, please contact this office at 223-0333.

Sincerely,



Billy DuPre
Solid and Hazardous Waste Consultant
Upper Savannah District

BD:d1

cc: Philip Prater
Reading
File

DATE: 9/30/86

SCDHEC COMPLIANCE INSPECTION CHECKLIST

SITE NAME: Monsanto Chemical Company STREET: P.O. Box 1057
CITY: Greenwood STATE: SC ZIP: 29648 COUNTY: Greenwood PHONE: 223-4241

SITE OPERATOR INFORMATION (IF DIFFERENT FROM OWNER)

NAME: STREET:
CITY: STATE: ZIP: COUNTY: PHONE:
SITE DESCRIPTION: manufacture of nylon fiber

TYPE OF OWNERSHIP

 Federal State County Municipal ☒ Private
☒ Generator Transporter Treatment Storage Disposal
 ↳ permit expired

INSPECTION INFORMATION

Principal Inspector Information

NAME: Billy DuPre
ADDRESS: P 129, One Park Avenue
 Greenwood, SC 29646

TITLE: Solid & Hazardous Waste Consultant
PHONE: 223-0333

Inspection Participants

NAME

Mr. Jerry Rinaldi

AFFILIATION

Supervisor, Env. Control

The purpose of this inspection is to determine compliance with the South Carolina Hazardous Waste Management Regulations promulgated pursuant to Section 44-56-10 et. seq. of the 1976 South Carolina Code of Laws, as amended.

Monsanto
Greenwood County
9/30/86

Generator Checklist

Subpart A-General

Does industry generate only state regulated HW (waste batteries and/or waste oil)? ☐ Yes ☒ No

If yes, complete waste oil and waste Battery Checklist.

262.12 If no, does generator have EPA ID Number? ☒ Yes ☐ No IA

EPA ID Number. SCD 0 0 0 4 1 9 0 6 9

Does generator generate solid waste(s) listed in R.61-79.261 Subpart D? ☒ Yes ☐ No

If yes, list waste and quantities 1,1,1 trichloroethane,
(Include EPA Waste Code)
190 pounds per month, F001.1,1,2 trichloro 1,2,2 trifluoroethane,

500 pounds/month, F002.waste oil, 1400 pounds per month, 8888.

Does generator generate solid waste(s) described in R.61-79.261 Subpart C that exhibit hazardous characteristics (corrosivity, ignitability, reactivity, EP toxicity)? ☒ Yes ☐ No

If yes, list waste and quantities. (Include EPA Waste ID)
monoethanolamine/formic acid/phenol mixture 250 pounds/month,

D002,mineral spirits, 0 pounds/month(ignitable) D001.

Does generator determine characteristics by testing or by applying knowledge of processes? applying knowledge

If determined by testing, attach copy of test methods.

Are there any other solid wastes generated by generator? ☒ Yes ☐ No

If yes, did generator test all wastes to determine non-hazardous characteristics? ☐ Yes ☒ No

List wastes: batteries, asbestos, paper, heat transfer

fluids, nylon fiber stock, brick, concrete, construction

material

Does Generator:

Store HW for > 90 days?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Store/Treat HW in incinerators?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Store/Treat HW in surface impoundments?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Store/Treat HW in Landfills?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Store/Treat HW in waste piles?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Physically, Chemically &/or Biologically Treat HW?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Thermally treat HW?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Land Apply HW?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

If no, and generator generates and stores HW for < 90 days complete the generator checklist.

270.10 If yes, has generator properly notified authorities of this activity? (Note: Exclusions under 261.6 (Reuse) and 265.1(c))

N/A ☐ Yes ☐ No IA

If yes, complete the ISS (265.) checklist.

Comments: _____

Subpart B-Manifest

Does generator ship waste off-site?

☒ Yes ☐ No

If yes, identify primary off-site facility(s)
and respective wastes.

Alternate Energy Resources - (Subpart D wastes

and mineral spirits), TOC - other Subpart C wastes

262.20(a) Does generator manifest waste shipped off-site?

☒ Yes ☐ No IB

262.21(a) Do generator's manifests include the following information?

IB

Manifest document number?

☒ Yes ☐ No

Generator name, mailing address, telephone number,
EPA ID number?

☒ Yes ☐ No

Transporter(s) name and EPA ID number?

☒ Yes ☐ No

Facility name, address and EPA ID number and
alternate facility info. (If applicable).

☒ Yes ☐ No

Waste information required by DOT - shipping name,
quantity (weight or vol.), containers (type and
number), EPA waste code number?

☒ Yes ☐ No

Emergency information: Special handling instruc-
tions, emergency phone numbers (optional)?

☒ Yes ☐ No

262.21(b) Is the following certification on each manifest form?

☒ Yes ☐ No

This is to certify that the above named materials
are properly classified, described, packaged,
marked and labeled and are in proper condition for
transportation according to the applicable regula-
tions of DOT, SCPSC, and SCDHEC.

262.23(a)(1) Does the generator sign and date all manifests?

☒ Yes ☐ No IB

Who signed for generator?

Raymond Collier

Utilities Operator

Name G. M. Rinaldi

Title Supervisor of Environmental Control

262.23(a)(2) Did generator obtain handwritten signature and date
of acceptance from transporter(s)?

☒ Yes ☐ No IB

Who signed for transporter? *(list name if more than one)*

Driver's Name Robert Griggs, Ralph Willis

Transporter Name Chemical Waste Management, Bryson, A.E.R.

262.23(a)(3) Does generator retain one completed copy of manifest signed by generator, transporter, and facility for three (3) years? Manifest #6 dated 3/20/86 ☐ Yes ☒ No IB

262.23(a)(3) Does generator file completed copies of manifests with the BSHWM within 45 days of the date of shipment to an out-of-state facility? (CONSULTANT CAN CHECK CORRECTLY FIND OUT) ☐ Yes ☒ No IB

Subpart C- Pre-Transport Requirements

262.30 Does generator package and label waste in accordance with DOT requirements? ☒ Yes ☐ No IB

262.32(b) Is each container of 110 gallons or less marked with the following label? ☒ Yes ☐ No IB

HAZARDOUS WASTE- Federal Law Prohibits Improper Disposal. If found, contact the nearest police or public safety authority or the SCDHEC

Generator(s) Name and Address _____

Manifest Document Number _____

262.33 Does generator have appropriate placards to offer transporters? (If required) ☒ Yes ☐ No IB

Does generator accumulate HW in containers? ☒ Yes ☐ No

If yes, complete 265 Subpart I - Use and Management of Containers checklist.

Does generator store hazardous waste in tanks? ☐ Yes ☒ No

If yes, complete 265-Subpart J - Tanks checklist.

262.34(a)(2) Does generator mark each HW storage container with an initial accumulation date that is visible for inspection? ☒ Yes ☐ No IB

262.34(a)(3) Does generator have each on-site HW container or tank marked clearly with the words, "Hazardous Waste"? ☒ Yes ☐ No IB

Does industry maintain disposal authorizations on-site? ☒ Yes ☐ No

Subpart D - Recordkeeping and Reporting

- 262.41 Does generator submit Quarterly Reports to the BSHWM within thirty (30) days of the end of each calendar quarter? need first and second quarter reports for 1986 ☐ Yes ☒ No II
- 262.40(b) Are these Quarterly Reports maintained by the industry for at least three (3) years? ☒ Yes ☐ No II
- 262.41(a)(4) Quarterly, does the generator submit a check made payable to the Department for payment of a fee of \$5.00 per ton of HW generated and disposed of in the State by land disposal? N/A ☐ Yes ☐ No II
- Has generator ever failed to receive a completely signed manifest within 45 days of the date that the HW was accepted by the initial transporter? ☒ Yes ☐ No
- 262.42(b) If yes, has the industry filed an Exception Report with the BSHWM? ☐ Yes ☒ No IB
- If yes, describe the conditions to necessitate the filing. _____

- 262.40(b) Does owner or operator maintain a copy of the Exception Report for at least three (3) years? N/A ☐ Yes ☐ No II

Subpart E - Special Conditions

Has generator ever shipped HW to a foreign country?

___ Yes ☒ No

262.50(b)

If yes, was the BSHWM notified in writing four (4) weeks before the initial shipment of hazardous waste to each country in each calendar year?

N/A ___ Yes ___ No II

262.50(b)(3)(i)

Has generator complied with the manifest requirements specified in Subpart B 262.21(1-8) (above) except that no EPA ID No. will be available for the foreign consignee?

N/A ___ Yes ___ No IB

Had generator ever received HW from a foreign source?

___ Yes ☒ No

262.50(d)

If yes, does generator comply with the manifest requirements specified in Subpart B 262.21 (a)(1-8) except:

N/A ___ Yes ___ No IB

In place of the generator's name, address, and EPA ID No., the name and address of the foreign generator and the importer's name, address, and EPA ID No. must be used; and

N/A

In place of the generator's signature on the certification statement, the U.S. importer or his agent must sign and date the certification and obtain the signature of the initial transporter?

For generators only, please attach and complete the following sections:

265.16 - Personnel Training

Attached

265. Subpart C - Preparedness and Prevention

Attached

265. Subpart D - Contingency Plans and
Emergency Procedures

Attached

265. Subpart I - Use and Management of Containers
(If applicable)

Attached

265. Subpart J - Tanks (if applicable)

N/A

Subpart B

Personnel Training - *applies to generators*

265.16(a)(1) Do personnel complete a program of classroom, or on-the-job training? *If no, go to (d)(1)* ☒ Yes ☐ No II

If yes, complete the following:

265.16(a)(2) Is this program directed by a person trained in HW management procedures? ☒ Yes ☐ No II

265.16(a)(3) Are personnel trained to respond effectively to emergencies? ☒ Yes ☐ No IB

If yes, does training include where applicable:

265.16(a)(3)(i) Procedures for using, inspecting, and re-pairing emergency and monitoring equipment? ☒ Yes ☐ No II

265.16(a)(3)(iii) Use of communication/alarm systems? ☒ Yes ☐ No II

265.16(a)(3)(iv) Response to fires/explosions? ☒ Yes ☐ No II

265.16(a)(3)(v) Response to GW contamination? N/A ☐ Yes ☐ No II

265.16(a)(3)(vi) Shutdown of operations? N/A ☐ Yes ☐ No II

265.16(b) Is training administered to employees in new positions within six (6) months? ☒ Yes ☐ No II

265.16(c) Is an annual review of the initial training program conducted? ☒ Yes ☐ No II

Are the following written HW-related training records maintained for each employee:

265.16(d)(1) Name of employee and job title? ☒ Yes ☐ No II

265.16(d)(2) Job description which must include skills, education, duties assigned? ☒ Yes ☐ No II

265.16(d)(3) Type and amount of training administered? ☒ Yes ☐ No II

265.16(d)(4) Documentation that training/job experience was received by employee? ☒ Yes ☐ No II

265.16(e) Are training records for current personnel kept until closure? ☒ Yes ☐ No II

265.16(e) Are training records for former employees kept for three (3) years? ☒ Yes ☐ No II

Subpart C - Preparedness and Prevention - *explosion generator*

Has it been demonstrated that certain equipment(s)
(as listed below) are not required?

If yes, explain. _____ Yes ☒ No

If no, are the following present:

- | | | |
|--------------|---|--|
| 265.32(a) | Communication & alarm system? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No II |
| 265.32(b) | Telephone & two-way radio? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No II |
| 265.32(c) | Portable fire extinguisher & fire control equipment? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No II |
| 265.32(c) | Spill control equipment? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No II |
| 265.32(c) | Decontamination equipment? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No II |
| 265.32(d) | Water reserve at adequate volume & pressure? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No II |
| 265.33 | Is all equipment (if listed above) tested/maintained to assure proper operation? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No II |
| 265.34 | Do employees who handle HW have immediate access to an alarm & communication device (if listed above)? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No II |
| 265.34(b) | Do employees working alone with HW have immediate access to an alarm & communication device (if listed above)? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No II |
| 265.37(a)(1) | Have arrangements been made to familiarize police fire and emergency response teams with the layout of the facility, entrances and evacuation routes? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No II |
| 265.37(a)(2) | If applicable, has a <u>primary</u> police/fire/emergency response team been assigned? | N/A <input type="checkbox"/> Yes <input type="checkbox"/> No II |
| 265.37(a)(4) | Have arrangements been made to familiarize local hospitals with the HW handled? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No II |
| 265.37(b) | If state or local authorities refuse to enter into such arrangements, is this documented in the operating record? | N/A <input type="checkbox"/> Yes <input type="checkbox"/> No II |

Subpart D - Contingency Plans & Emergency Procedures - *applies to generators*

26.51(a) Does industry maintain a contingency plan? ☒ Yes ☐ No IB

Does this plan include:

265.52(a) A description of the emergency responses personnel must follow? ☒ Yes ☐ No II

265.52(c) Arrangements with police/fire department/hospitals/contractors/state & local emergency response teams. *to include DHEC* ☐ Yes ☒ No II

265.52(c) An updated list of names, addresses & phone numbers (office & home) of emergency coordinator/s? ☐ Yes ☒ No II

265.52(d) Designation of a primary emergency coordinator (if applicable)? ☒ Yes ☐ No II

265.52(e) An updated list of all emergency equipment? ☒ Yes ☐ No II

265.52(e) The description & location of such equipment? ☒ Yes ☐ No II

265.52(f) An evacuation plan? ☒ Yes ☐ No II

265.52(f) A signal to begin evacuation? ☒ Yes ☐ No II

Is an updated copy of the contingency plan:

265.53(a) Maintained at facility? ☒ Yes ☐ No II

265.53(b) Submitted to local police/fire department/hospitals/state & local emergency response teams? ☒ Yes ☐ No II

265.55 Is an emergency coordinator on call/or on site at all times? ☒ Yes ☐ No II

265.56 Does the contingency plan include the steps to be taken in possible emergency situations? ☒ Yes ☐ No II

Has the operator ever implemented the contingency plan? ☐ Yes ☒ No

Subpart I - Use and Management of Containers

Are storage containers maintained free from:

- 265.171 Leaks? ☒ Yes ☐ No IA/B
- 265.171 Deterioration? ☒ Yes ☐ No IA/B
- 265.171 Structural defects? ☒ Yes ☐ No IA/B

Are containers:

- 265.173(a) Closed during storage?
(except to add or subtract HW) ☒ Yes ☐ No II
- 265.173(b) Handled/stored in a way which may not cause
leakage and/or rupture? ☒ Yes ☐ No II
- 265.173(c) Labeled properly? ☒ Yes ☐ No IB
- 265.174 Inspected weekly? at "satellite" locations ☐ Yes ☒ No II
- 265.176 Are ignitable or reactive waste located at least 15
meters (50 feet) from the facility's property
line? N/A ☐ Yes ☐ No IB
- 265.177 Are incompatible wastes separated by a barrier in
storage area? N/A ☐ Yes ☐ No IB
- 265.14(c)(2)(ii) Are signs (e.g., Danger Unauthorized Personnel
Keep Out) posted at the entrances to the
active portion? (For ISS only) N/A ☐ Yes ☐ No II
- 265.112 Will the drum storage area be addressed at closure?
(No formal closure plan required for industries
which store less than 90 days.) N/A ☐ Yes ☐ No IB
- Is adequate aisle space present in all areas
of the facility? ☒ Yes ☐ No
- 265.35 If no, has it been demonstrated to BSHWM that
adequate aisle space is not necessary? N/A ☐ Yes ☐ No II

01-31-85R

U.MC-1

N/E
REGION: 04
STATE: SC

U.S. ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF EMERGENCY AND REMEDIAL RESPONSE
C E R C L A

PAGE: 443
RUN DATE: 85/10/25
RUN TIME: 08:51:42

M.2 - SITE MAINTENANCE FORM

* ACTION: _

EPA ID: SCD000419069

SITE NAME: MONSANTO TEXTILES

SOURCE: H

STREET: HWY 246/ BOX 1057

CONG DIST: 03

CITY: GREENWOOD

ZIP: 29646

CNTY NAME: GREENWOOD

CNTY CODE: 047

LATITUDE: 34/14/30.0 LONGITUDE: 082/03/00.0

SMSA: HYDRO UNIT: 03050109

INVENTORY IND: Y REMEDIAL IND: Y REMOVAL IND: N FED FAC IND: N

NPL IND: N NPL LISTING DATE: NPL DELISTING DATE:

APPROACH: SITE CLASS:

SITE/SPILL IDS:

RPM NAME:

RPM PHONE:

DIOXIN TIER: REG FLD1: REG FLD2: 6

RESP TERM: PENDING () NO FURTHER ACTION (X)

ENF DISP: NO VIABLE RESP PARTY () VOLUNTARY RESPONSE ()

ENFORCED RESPONSE () COST RECOVERY ()

SITE DESCRIPTION:

* PENDING () NO FURTHER ACTION ()

REGION: 04
STATE : SC

U.S. ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF EMERGENCY AND REMEDIAL RESPONSE
C E R C L A

PAGE: 444
RUN DATE: 85/10/25
RUN TIME: 08:51:42

M.2 - PROGRAM MAINTENANCE FORM

SITE: MONSANTO TEXTILES

EPA ID: SCD000419069 PROGRAM CODE: H01 PROGRAM TYPE.

PROGRAM QUALIFIER: ALIAS LINK :

PROGRAM NAME: SITE EVALUATION

DESCRIPTION:

* ACTION: _

*

*

*

*

*

*

*

REGION: 04
STATE : SC

U.S. ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF EMERGENCY AND REMEDIAL RESPONSE
C E R C L A

PAGE: 445
RUN DATE: 85/10/25
RUN TIME: 08:51:42

M.2 - EVENT MAINTENANCE FORM

* ACTION: _

SITE: MONSANTO TEXTILES
PROGRAM: SITE EVALUATION

EPA ID: SCD000419069 PROGRAM CODE: H01 EVENT TYPE: DS1

FMS CODE: EVENT QUALIFIER: EVENT LEAD: F

EVENT NAME: DISCOVERY STATUS:

(DESCRIPTION:

* _ _ _ _ _
* _ _ _ _ _
* _ _ _ _ _
* _ _ _ _ _
* _ _ _ _ _

ORIGINAL	CURRENT	ACTUAL
START:	START:	START:
COMP :	COMP :	COMP : 79/12/01

* _/_/_ _/_/_ _/_/_
* _/_/_ _/_/_ _/_/_

HQ COMMENT:

* _ _ _ _ _
* _ _ _ _ _

RG COMMENT:

COOP AGR % AMENDMENT # STATUS STATE %

* _ _ _ _ _

REGION: 04
STATE : SC

U.S. ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF EMERGENCY AND REMEDIAL RESPONSE
C E R C L A

PAGE: 446
RUN DATE: 85/10/25
RUN TIME: 08:51:42

M.2 - EVENT MAINTENANCE FORM

* ACTION: _

SITE: MONSANTO TEXTILES
PROGRAM: SITE EVALUATION

EPA ID: SCD000419069 PROGRAM CODE: H01 EVENT TYPE: PA1

FMS CODE: EVENT QUALIFIER: EVENT LEAD:

EVENT NAME: PRELIMINARY ASSESSMENT STATUS:

DESCRIPTION:

* _____
* _____
* _____
* _____

ORIGINAL	CURRENT	ACTUAL
START:	START:	START:
COMP :	COMP :	COMP : 79/12/01

* _/_/_ _/_/_ _/_/_
* _/_/_ _/_/_ _/_/_

HQ COMMENT:

* _____

RG COMMENT:

* _____

COOP AGR # AMENDMENT # STATUS STATE %

* _____



POTENTIAL HAZARDOUS WASTE SITE
FINAL STRATEGY DETERMINATION

REGION SITE NUMBER
IV 50000000560

File this form in the regional Hazardous Waste Log File and submit a copy to: U.S. Environmental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Task Force (EN-335); 401 M St., SW; Washington, DC 20460.

I. SITE IDENTIFICATION

A. SITE NAME B. STREET
Monsanto Textiles Co HWY 246 BOX 1057
C. CITY D. STATE E. ZIP CODE
Greenwood S.C.

II. FINAL DETERMINATION

Indicate the recommended action(s) and agency(ies) that should be involved by marking 'X' in the appropriate boxes.

RECOMMENDATION	MARK 'X'	ACTION AGENCY			
		EPA	STATE	LOCAL	PRIVATE
A. NO ACTION NEEDED	X				
B. REMEDIAL ACTION NEEDED, BUT NO RESOURCES AVAILABLE (If yes, complete Section III.)					
C. REMEDIAL ACTION (If yes, complete Section IV.)					
D. ENFORCEMENT ACTION (If yes, specify in Part E whether the case will be primarily managed by the EPA or the State and what type of enforcement action is anticipated.)					

E. RATIONALE FOR FINAL STRATEGY DETERMINATION

Preliminary Assessment prepared by the State indicates that no hazard exists at this site.

F. IF A CASE DEVELOPMENT PLAN HAS BEEN PREPARED, SPECIFY THE DATE PREPARED (mo., day, & yr.) G. IF AN ENFORCEMENT CASE HAS BEEN FILED, SPECIFY THE DATE FILED (mo., day, & yr.)

H. PREPARER INFORMATION

1. NAME 2. TELEPHONE NUMBER 3. DATE (mo., day, & yr.)
Ron Jones FTS 257-2234 8/4/81

III. REMEDIAL ACTIONS TO BE TAKEN WHEN RESOURCES BECOME AVAILABLE

List all remedial actions, such as excavation, removal, etc. to be taken as soon as resources become available. See instructions for a list of Key Words for each of the actions to be used in the spaces below. Provide an estimate of the approximate cost of the remedy.

A. REMEDIAL ACTION	B. ESTIMATED COST	C. REMARKS
	\$	
	\$	
	\$	
	\$	
	\$	
	\$	
	\$	
	\$	
	\$	
D. TOTAL ESTIMATED COST	\$	

Continued From Front

IV. REMEDIAL ACTIONS

A. SHORT TERM/EMERGENCY ACTIONS (On Site and Off-Site): List all emergency actions taken or planned to bring the site under immediate control, e.g., restrict access, provide alternate water supply, etc. See instructions for a list of Key Words for each of the actions to be used in the spaces below.

1. ACTION	2. ACTION START DATE (mo, day, & yr)	3. ACTION END DATE (mo, day, & yr)	4. ACTION AGENCY (EPA, State, Private Party)	5. COST	6. SPECIFY 311 OR OTHER ACTION; INDICATE THE MAGNITUDE OF THE WORK REQUIRED.
				\$	
				\$	
				\$	
				\$	
				\$	
				\$	

B. LONG TERM STRATEGY (On Site and Off-Site): List all long term solutions, e.g., excavation, removal, ground water monitoring wells, etc. See instructions for a list of Key Words for each of the actions to be used in the spaces below.

1. ACTION	2. ACTION START DATE (mo, day, & yr)	3. ACTION END DATE (mo, day, & yr)	4. ACTION AGENCY (EPA, State, Private Party)	5. COST	6. SPECIFY 311 OR OTHER ACTION; INDICATE THE MAGNITUDE OF THE WORK REQUIRED.
				\$	
				\$	
				\$	
				\$	
				\$	
				\$	

C. MANHOURS AND COST BY ACTION AGENCY

1. ACTION AGENCY	2. TOTAL MAN- HOURS FOR REMEDIAL ACTIVITIES	3. TOTAL COST FOR REMEDIAL ACTIVITIES
a. EPA		\$
b. STATE		\$
c. PRIVATE PARTIES		\$
d. OTHER (specify):		\$



POTENTIAL HAZARDOUS WASTE SITE
TENTATIVE DISPOSITION

REGION 4 SITE NUMBER SC0000000560

File this form in the regional Hazardous Waste Log File and submit a copy to: U.S. Environmental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Task Force (EN-335); 401 M St., SW; Washington, DC 20460.

I. SITE IDENTIFICATION

A. SITE NAME Mossanto Textiles Co. B. STREET HWY 246 Box 1057
C. CITY Greenwood D. STATE S.C. E. ZIP CODE

II. TENTATIVE DISPOSITION

Indicate the recommended action(s) and agency(ies) that should be involved by marking 'X' in the appropriate boxes.

RECOMMENDATION	MARK 'X'	ACTION AGENCY			
		EPA	STATE	LOCAL	PRIVATE
A. NO ACTION NEEDED -- NO HAZARD	X				
B. INVESTIGATIVE ACTION(S) NEEDED (If yes, complete Section III.)					
C. REMEDIAL ACTION NEEDED (If yes, complete Section IV.)					
D. ENFORCEMENT ACTION NEEDED (if yes, specify in Part E whether the case will be primarily managed by the EPA or the State and what type of enforcement action is anticipated.)					

E. RATIONALE FOR DISPOSITION

PA by the State.

F. INDICATE THE ESTIMATED DATE OF FINAL DISPOSITION (mo., day, & yr.)

G. IF A CASE DEVELOPMENT PLAN IS NECESSARY, INDICATE THE ESTIMATED DATE ON WHICH THE PLAN WILL BE DEVELOPED (mo., day, & yr.)

H. PREPARER INFORMATION

1. NAME Ron J. Jones 2. TELEPHONE NUMBER 813 257-2234 3. DATE (mo., day, & yr.) 8/3/8

III. INVESTIGATIVE ACTIVITY NEEDED

A. IDENTIFY ADDITIONAL INFORMATION NEEDED TO ACHIEVE A FINAL DISPOSITION.

B. PROPOSED INVESTIGATIVE ACTIVITY (Detailed Information)

1. METHOD FOR OBTAINING NEEDED ADDITIONAL INFO.	2. SCHEDULED DATE OF ACTION (mo, day, & yr)	3. TO BE PERFORMED BY (EPA, Contractor, State, etc.)	4. ESTIMATED MANHOURS	5. REMARKS
a. TYPE OF SITE INSPECTION				
(1)				
(2)				
(3)				
b. TYPE OF MONITORING				
(1)				
(2)				
c. TYPE OF SAMPLING				
(1)				
(2)				

Continued From Front

III. INVESTIGATIVE ACTIVITY NEEDED and PART B-PROPOSED INVESTIGATIVE ACTIVITY (Continued)

d. TYPE OF LAB ANALYSIS				
(1) _____	_____	_____	_____	_____
(2) _____	_____	_____	_____	_____
e. OTHER (specify)				
(1) _____	_____	_____	_____	_____
(2) _____	_____	_____	_____	_____

C. ELABORATE ON ANY OF THE INFORMATION PROVIDED IN PART B (on front & above) AS NEEDED TO IDENTIFY ADDITIONAL INVESTIGATIVE WORK.

D. ESTIMATED MANHOURS BY ACTION AGENCY

1. ACTION AGENCY	2. TOTAL ESTIMATED MANHOURS FOR INVESTIGATIVE ACTIVITIES	1. ACTION AGENCY	2. TOTAL ESTIMATED MANHOURS FOR INVESTIGATIVE ACTIVITIES
a. EPA		b. STATE	
c. EPA CONTRACTOR		d. OTHER (specify)	

IV. REMEDIAL ACTIONS

A. SHORT TERM/EMERGENCY STRATEGY (On Site & Off-Site): List all emergency actions needed to bring site under immediate control, e.g., restrict access, provide alternate water supply, etc. See instructions for a list of Key Words for each of the actions to be used in the space below.

1. ACTION	2. EST. START DATE (mo, day, & yr)	3. EST. END DATE (mo, day, & yr)	4. ACTION AGENCY (EPA, State, Private Party)	5. ESTIMATED COST	6. SPECIFY 311 OR OTHER ACTION; INDICATE THE MAGNITUDE OF THE WORK REQUIRED
				\$	
				\$	
				\$	
				\$	
				\$	
				\$	

B. LONG TERM STRATEGY (On Site & Off-Site): List all long term solutions, e.g., excavation, removal, ground water monitoring wells, etc. See instructions for a list of Key Words for each of the actions to be used in the spaces below.

1. ACTION	2. EST. START DATE (mo, day, & yr)	3. EST. END DATE (mo, day, & yr)	4. ACTION AGENCY (EPA, State, Private Party)	5. ESTIMATED COST	6. SPECIFY 311 OR OTHER ACTION; INDICATE THE MAGNITUDE OF THE WORK REQUIRED
				\$	
				\$	
				\$	
				\$	
				\$	
				\$	

C. ESTIMATED MANHOURS AND COST BY ACTION AGENCY

1. ACTION AGENCY	2. TOTAL EST. MANHOURS FOR REMEDIAL ACTIVITIES	3. TOTAL EST. COST FOR REMEDIAL ACTIVITIES	1. ACTION AGENCY	2. TOTAL EST. MANHOURS FOR REMEDIAL ACTIVITIES	3. TOTAL EST. COST FOR REMEDIAL ACTIVITIES
a. EPA			b. STATE		
c. PRIVATE PARTIES			d. OTHER (specify)		



U.S. ENVIRONMENTAL PROTECTION AGENCY
NOTIFICATION OF HAZARDOUS WASTE ACTIVITY

INSTRUCTIONS: If you received a preprinted label, affix it in the space at left. If any of the information on the label is incorrect, draw a line through it and supply the correct information in the appropriate section below. If the label is complete and correct, leave Items I, II, and III below blank. If you did not receive a preprinted label, complete all items. "Installation" means a single site where hazardous waste is generated, treated, stored and/or disposed of, or a transporter's principal place of business. Please refer to the INSTRUCTIONS FOR FILING NOTIFICATION before completing this form. The information requested herein is required by law (Section 3010 of the Resource Conservation and Recovery Act).

I.	INSTALLATION'S EPA I.D. NO.	SCD000419069
II.	INSTALLATION MAILING ADDRESS	MONSANTO TEXTILES NINETY SIX HWY GREENWOOD, SC 29646
III.	LOCATION OF INSTALLATION	NINETY SIX HWY GREENWOOD, SC 29646

RECEIVED
EPA/REGION I

SEP 3 2 53 PM '61

END OF PAGE

FOR OFFICIAL USE ONLY

COMMENTS

[illegible]

INSTALLATION'S EPA I.D. NUMBER												APPROVED			DATE RECEIVED (yr., mo., & day)								
3	F	S	C	D	0	0	0	4	1	9	0	7	C	1				8	0	0	7	1	5

818008 m

I. NAME OF INSTALLATION

~~MONSANTO TEXTILES~~

II. INSTALLATION MAILING ADDRESS

STREET OR P.O. BOX

[illegible]

CITY OR TOWN

E	G	R	E	E	N	W	O	O	D									S	C	2	9	6	4	6
---	---	---	---	---	---	---	---	---	---	--	--	--	--	--	--	--	--	---	---	---	---	---	---	---

III. LOCATION OF INSTALLATION

STREET OR ROUTE NUMBER

[illegible]

CITY OR TOWN

e	G R E E N W O O D									S C	2	9	6	4	6
---	-------------------	--	--	--	--	--	--	--	--	-----	---	---	---	---	---

IV. INSTALLATION CONTACT

NAME AND TITLE (last, first, & job title)

[illegible]

PHONE NO. (area code & no.)

[illegible]

V. OWNERSHIP

A. NAME OF INSTALLATION'S LEGAL OWNER

[illegible]

B. TYPE OF OWNERSHIP
(enter the appropriate letter into box)

VI. TYPE OF HAZARDOUS WASTE ACTIVITY (enter "X" in the appropriate box(es))

F = FEDERAL M = NON-FEDERAL	M	<input checked="" type="checkbox"/> ³⁷ A. GENERATION	<input checked="" type="checkbox"/> ³⁴ B. TRANSPORTATION (complete item VII)
		<input checked="" type="checkbox"/> C. TREAT/STORE/DISPOSE	<input type="checkbox"/> D. UNDERGROUND INJECTION

VII. MODE OF TRANSPORTATION (transporters only - enter "X" in the appropriate box(es))

☐ A. AIR ☐ B. RAIL ☒ C. HIGHWAY ☐ D. WATER ☐ E. OTHER (specify):

VIII. FIRST OR SUBSEQUENT NOTIFICATION

Mark "X" in the appropriate box to indicate whether this is your installation's first notification of hazardous waste activity or a subsequent notification. If this is not your first notification, enter your Installation's EPA I.D. Number in the space provided below.

☒ **A. FIRST NOTIFICATION** ☐ **B. SUBSEQUENT NOTIFICATION** (complete item C)

IX. DESCRIPTION OF HAZARDOUS WASTES

Please go to the reverse of this form and provide the requested information.

C. INSTALLATION'S EPA I.D. NO.										
S	C	D	0	0	0	4	1	9	0	6

Greenwood
P. O. Box 1
Monterey, Tex
J. T. Roberts

I.D. - FOR OFFICIAL USE ONLY

W 5 C D 0 0 0 4 1 9 0 6 9 5 1

DETACH A

DETACH A

A. DESCRIPTION OF HAZARDOUS WASTES (continued from front)

A. HAZARDOUS WASTES FROM NON-SPECIFIC SOURCES. Enter the four-digit number from 40 CFR Part 261.31 for each listed hazardous waste from non-specific sources your installation handles. Use additional sheets if necessary.

1 F 0 0 1 23 - 26	2 F 0 0 2 23 - 26	3 23 - 26	4 23 - 26	5 23 - 26	6 23 - 26
7 23 - 26	8 23 - 26	9 23 - 26	10 23 - 26	11 23 - 26	12 23 - 26

B. HAZARDOUS WASTES FROM SPECIFIC SOURCES. Enter the four-digit number from 40 CFR Part 261.32 for each listed hazardous waste from specific industrial sources your installation handles. Use additional sheets if necessary.

13 23 - 26	14 23 - 26	15 23 - 26	16 23 - 26	17 23 - 26	18 23 - 26
19 23 - 26	20 23 - 26	21 23 - 26	22 23 - 26	23 23 - 26	24 23 - 26
25 23 - 26	26 23 - 26	27 23 - 26	28 23 - 26	29 23 - 26	30 23 - 26

C. COMMERCIAL CHEMICAL PRODUCT HAZARDOUS WASTES. Enter the four-digit number from 40 CFR Part 261.33 for each chemical substance your installation handles which may be a hazardous waste. Use additional sheets if necessary.

31 23 - 26	32 U 0 1 3 23 - 26	33 23 - 26	34 U 1 2 3 23 - 26	35 U 2 2 6 23 - 26	36 U 1 8 8 23 - 26
37 23 - 26	38 23 - 26	39 23 - 26	40 23 - 26	41 23 - 26	42 23 - 26
43 23 - 26	44 23 - 26	45 23 - 26	46 23 - 26	47 23 - 26	48 23 - 26

D. LISTED INFECTIOUS WASTES. Enter the four-digit number from 40 CFR Part 261.34 for each listed hazardous waste from hospitals, veterinary hospitals, medical and research laboratories your installation handles. Use additional sheets if necessary.

49 23 - 26	50 23 - 26	51 23 - 26	52 23 - 26	53 23 - 26	54 23 - 26
---------------	---------------	---------------	---------------	---------------	---------------

E. CHARACTERISTICS OF NON-LISTED HAZARDOUS WASTES. Mark "X" in the boxes corresponding to the characteristics of non-listed hazardous wastes your installation handles. (See 40 CFR Parts 261.21 - 261.24.)

☐ 1. IGNITABLE (D001)

☐ 2. CORROSIVE (D002)

☐ 3. REACTIVE (D003)

☐ 4. TOXIC (D000)

X. CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

SIGNATURE J. T. Roberts	NAME & OFFICIAL TITLE (type or print) J. T. Roberts Sr. Environmental Engineer	DATE SIGNED 8/12/80
----------------------------	--	------------------------

IV. CHARACTERIZATION OF SITE ACTIVITY

Indicate the major site activity(ies) and details relating to each activity by marking 'X' in the appropriate boxes.

X	A. TRANSPORTER	X	B. STORER	X	C. TREATER	X	D. DISPOSER
	1. RAIL		1. PILE		1. FILTRATION	✓	1. LANDFILL
	2. SHIP		2. SURFACE IMPOUNDMENT		2. INCINERATION		2. LANDFARM
	3. BARGE		3. DRUMS		3. VOLUME REDUCTION		3. OPEN DUMP
	4. TRUCK		4. TANK, ABOVE GROUND		4. RECYCLING/RECOVERY		4. SURFACE IMPOUNDMENT
	5. PIPELINE		5. TANK, BELOW GROUND		5. CHEM./PHYS. TREATMENT		5. MIDNIGHT DUMPING
	6. OTHER (specify):		6. OTHER (specify):		6. BIOLOGICAL TREATMENT		6. INCINERATION
					7. WASTE OIL REPROCESSING		7. UNDERGROUND INJECTION
					8. SOLVENT RECOVERY		8. OTHER (specify):
					9. OTHER (specify):		

E. SPECIFY DETAILS OF SITE ACTIVITIES AS NEEDED

MANUFACTURE AND DISPOSAL OF NYLON POLYMERS

V. WASTE RELATED INFORMATION

A. WASTE TYPE

☐ 1 UNKNOWN ☐ 2 LIQUID ☒ 3. SOLID ☐ 4. SLUDGE ☐ 5. GAS

B. WASTE CHARACTERISTICS

☐ 1 UNKNOWN ☐ 2. CORROSIVE ☐ 3. IGNITABLE ☐ 4. RADIOACTIVE ☐ 5. HIGHLY VOLATILE
☐ 6. TOXIC ☐ 7. REACTIVE ☒ 8. INERT ☐ 9. FLAMMABLE

☒ 10 OTHER (specify): PH 7.6.

C. WASTE CATEGORIES

1. Are records of wastes available? Specify items such as manifests, inventories, etc. below.

NONE

2. Estimate the amount (specify unit of measure) of waste by category; mark 'X' to indicate which wastes are present.

a. SLUDGE		b. OIL		c. SOLVENTS		d. CHEMICALS		e. SOLIDS		f. OTHER	
AMOUNT		AMOUNT		AMOUNT		AMOUNT		AMOUNT		AMOUNT	
UNIT OF MEASURE		UNIT OF MEASURE		UNIT OF MEASURE		UNIT OF MEASURE		UNIT OF MEASURE		UNIT OF MEASURE	
X (1) PAINT, PIGMENTS		X (1) OILY WASTES		X (1) HALOGENATED SOLVENTS		X (1) ACIDS		X (1) FLYASH		X (1) LABORATORY PHARMACEUT.	
(2) METALS SLUDGES		(2) OTHER (specify):		(2) NON-HALOGENATED SOLVENTS		(2) PICKLING LIQUORS		(2) ASBESTOS		(2) HOSPITAL	
(3) POTW				(3) OTHER (specify):		(3) CAUSTICS		(3) MILLING/ MINE TAILINGS		(3) RADIOACTIVE	
(4) ALUMINUM SLUDGE						(4) PESTICIDES		(4) FERROUS SMLTG. WASTES		(4) MUNICIPAL	
(5) OTHER (specify):						(5) DYES/INKS		(5) NON-FERROUS SMLTG. WASTES		(5) OTHER (specify):	
						(6) CYANIDE					
						(7) PHENOLS					
						(8) HALOGENS					
						(9) PCB					
						(10) METALS					
						(11) OTHER (specify):					

V. WASTE RELATED INFORMATION (continued)

3. LIST SUBSTANCES OF GREATEST CONCERN WHICH MAY BE ON THE SITE (place in descending order of hazard).

INERT NYLON POLYMERS

4. ADDITIONAL COMMENTS OR NARRATIVE DESCRIPTION OF SITUATION KNOWN OR REPORTED TO EXIST AT THE SITE.

SITE APPEARS TO BE WELL CLOSED OUT; GOOD DRAINAGE AND VEGETATION ESTABLISHED

VI. HAZARD DESCRIPTION

A. TYPE OF HAZARD	B. POTENTIAL HAZARD (mark 'X')	C. ALLEGED INCIDENT (mark 'X')	D. DATE OF INCIDENT (mo., day, yr.)	E. REMARKS
1. NO HAZARD		X		SEE ABOVE
2. HUMAN HEALTH				
3. NON-WORKER INJURY/EXPOSURE				
4. WORKER INJURY				
5. CONTAMINATION OF WATER SUPPLY				
6. CONTAMINATION OF FOOD CHAIN				
7. CONTAMINATION OF GROUND WATER				
8. CONTAMINATION OF SURFACE WATER				
9. DAMAGE TO FLORA/FAUNA				
10. FISH KILL				
11. CONTAMINATION OF AIR				
12. NOTICEABLE ODORS				
13. CONTAMINATION OF SOIL				
14. PROPERTY DAMAGE				
15. FIRE OR EXPLOSION				
16. SPILLS/LEAKING CONTAINERS/ RUNOFF/STANDING LIQUIDS				
17. SEWER, STORM DRAIN PROBLEMS				
18. EROSION PROBLEMS				
19. INADEQUATE SECURITY				
20. INCOMPATIBLE WASTES				
21. MIDNIGHT DUMPING				
22. OTHER (specify):				

VII. PERMIT INFORMATION

A. INDICATE ALL APPLICABLE PERMITS HELD BY THE SITE.

- ☐ 1. NPDES PERMIT ☒ 2. SPCC PLAN ☐ 3. STATE PERMIT (specify) _____
☐ 4. AIR PERMITS ☐ 5. LOCAL PERMIT ☐ 6. RCRA TRANSPORTER _____
☒ 7. RCRA STORER ☐ 8. RCRA TREATER ☐ 9. RCRA DISPOSER _____

☐ 10. OTHER (specify): WASTE MANIFESTS TO D.H.E.C. FOR DISPOSAL AT PROPER FACILITIES; PCB DISPOSAL

B. IN COMPLIANCE?

- ☒ 1. YES ☐ 2. NO ☐ 3. UNKNOWN

4. WITH RESPECT TO (list regulation name & number): _____

VIII. PAST REGULATORY ACTIONS

- ☒ A. NONE ☐ B. YES (summarize below)

IX. INSPECTION ACTIVITY (past or on-going)

- ☐ A. NONE ☐ B. YES (complete items 1, 2, 3, & 4 below)

1. TYPE OF ACTIVITY	2. DATE OF PAST ACTION (mo., day, & yr.)	3. PERFORMED BY: (EPA/State)	4. DESCRIPTION
SITE INSPECTED	12-14-79	SC.	

X. REMEDIAL ACTIVITY (past or on-going)

- ☒ A. NONE ☐ B. YES (complete items 1, 2, 3, & 4 below)

1. TYPE OF ACTIVITY	2. DATE OF PAST ACTION (mo., day, & yr.)	3. PERFORMED BY: (EPA/State)	4. DESCRIPTION
	1969		COMPANY CLOSED LANDFILL

NOTE: Based on the information in Sections III through X, fill out the Preliminary Assessment (Section II) information on the first page of this form.

LANDFILLS SITE INSPECTION REPORT (Supplemental Report)	INSTRUCTION Answer and Explain as Necessary.
1. EVIDENCE OF SITE INSTABILITY (Erosion, Settling, Sink Holes, etc.) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
2. EVIDENCE OF IMPROPER DISPOSAL OF BULK LIQUIDS, SEMI-SOLIDS AND SLUDGES INTO THE LANDFILL <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO ONLY NYLON POLYMERS WERE BURIED HERE	
3. CHECK RECORDS OF CELL LOCATION AND CONTENTS AND BENCHMARK <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO NONE AVAILABLE	
4. WASTE'S CONTAINED BY ROBUST MATERIAL <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
5. DIVERSION STRUCTURES ARE EFFECTIVELY CONSTRUCTED AND PROPERLY MAINTAINED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
6. EVIDENCE OF PONDING OF WATER ON SITE <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
7. EVIDENCE OF IMPROPER/INADEQUATE DRAINING <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
8. ADEQUATE LEACHATE COLLECTION SYSTEM (If present, specify type) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
9a. SURFACE LEACHATE SPRING <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO INSPECTED 5-30-80	
9. RECORDS OF LEACHATE ANALYSIS <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
10. GAS MONITORING <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO GAS SHOULD NOT BE PRODUCED BY NYLON	
11. GROUNDWATER MONITORING WELLS <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO SURFACE WATER IS ROUTINELY MONITORED DOWNSTREAM FOR GENERAL POLLUTANTS	
12. ARTIFICIAL MEMBRANE LINER INSTALLED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
13. SPECIFIC CONTAINMENT MEASURES (Clay Bottom, Sides, etc.) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
14. FIXATION (Stabilization) OF WASTE <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO INERT SOLIDS ONLY	
15. ADEQUATE CLOSURE OF INACTIVE PORTION OF FACILITY <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
16. COVER; Type: CLAY	
16a. THICKNESS 2'-6'	
16b. PERMEABILITY LOW	
16c. DAILY APPLICATION <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO INACTIVE SINCE 1970	

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POOR LEGIBILITY

**PORTIONS OF THIS DOCUMENT
MAY BE UNREADABLE, DUE TO
THE QUALITY OF THE
ORIGINAL**



1927 LAKESIDE PARKWAY
SUITE 614
TUCKER, GEORGIA 30084
404-938-7710

copy

2117

C-586-6-8-1

June 1, 1988

Mr. Narindar Kumar
Site Investigation and Support Branch
Waste Management Division
Environmental Protection Agency
345 Courtland Street, N. E.
Atlanta, Georgia 30365

Date: 8/5/88
Site Disposition: NFA
EPA Project Manager: SD

Subject: Preliminary Reassessment (SI)
Monsanto Textiles Company
Blacksburg, Cherokee, South Carolina
SCD001700863
TDD No. F4-8801-30

Dear Mr. Kumar:

FIT 4 conducted a preliminary reassessment of the Monsanto Textiles Company in Blacksburg, Cherokee County, South Carolina. The reassessment included a review of EPA and state file material, completion of a target survey, and an offsite reconnaissance of the facility and surrounding areas.

The Monsanto Textiles Company was in operation in Blacksburg from 1968 to 1982. During this time, landfill trenches were used for the disposal of inert and cellulosic wastes. These wastes were created during the repackaging of synthetic fibers and the warehousing and shipping of the fibers in cartons, bales, spools, and beams. The landfill trenches were 15 feet deep, 150 feet long and 19 feet wide. There were between 5 and 8 of these trenches on the property (Ref. 1).

Monsanto had two underground fuel oil storage tanks, one with a capacity of 15,000 gallons and the other with a capacity of 10,000 gallons. In 1971, a faulty pressure gauge on one of the tanks began leaking oil, resulting in a loss of 2,000 gallons of oil into the soil. The oil seeped into the headwaters of Bee Branch, a tributary of Buffalo Creek, but Monsanto responded quickly to the crisis and cleaned the spill to the satisfaction of the South Carolina Department of Health and Environmental Control (SCDHEC). The underground storage tanks were excavated from the ground in 1986 (Ref. 1).

In 1981 SCDHEC issued a permit to construct and operate a solid waste management system for inert and cellulosic waste. The permit limited these wastes "to specifically include paper and corrugated paper, cardboard, wood, canteen waste, metal scraps and metal bailing bands" (Ref. 1).

In 1982, Monsanto ceased operations at this location and the site underwent a closeout inspection by SCDHEC. The burial trenches were properly closed out. This site was part of the Eckhardt Study (Ref. 1).

Mr. Narindar Kumar
Environmental Protection Agency
TDD No F4-8801-30
June 1, 1988 - Page 2

In 1985 Export Leaf Tobacco Company began operations at the site. This company is involved in the warehouse storage and shipping of boxes and barrels of tobacco. The closed-out landfill trenches are not being used by Export Leaf. All of their domestic, inert, or cellulosic waste is carried away by Davis Disposal Service (Ref. 1).

The only possible source of hazardous waste is the degreasing agents which may be used in cleaning the repackaging machines. There is no documentation to indicate that wastes of this kind have been disposed of in the landfill (Ref. 1).

Three wells are on the property: wells #1 and #2 are 280 feet deep and were used for lawn sprinkling, well #3 is located in front of the main building, 2100 feet away from the landfill area, and was used for drinking water for the Monsanto employees. The depth of this well is not known (Ref. 1). This is the closest known well to the site. The Export Leaf Tobacco Company is presently using the well for drinking water for the 18 employees of its company (Ref. 2).

The facility is located in the Piedmont Physiographic Province of northwestern South Carolina. The Piedmont Province is divided into six different belts of metamorphosed rocks. Blacksburg is located in the Inner Piedmont belt. The bedrock is comprised of rocks of medium to high metamorphic grade, including granitic gneiss, sillimanite schist, mica schist, and amphibolite. Above this crystalline bedrock lies a layer of residuum which is composed of the weathered crystalline rock. This layer is known as saprolite and is often as thick as 100 feet in valleys and draws (Ref. 3).

The groundwater occurs both in fractures formed by fault and joint systems in the bedrock and in the saprolite layer overlying the bedrock. The saprolite acts as a reservoir for groundwater recharge to the bedrock and is hydraulically connected with the bedrock (Ref. 4). Higher yields are obtained from wells screened in the fracture zones of the bedrock than from the saprolite. Wells in the Blacksburg area range from 36 to 500 feet deep and yield from 1 to 175 gallons per minute (Ref. 3). The water table at the lowest point of the landfill area is estimated at 150 feet (Ref. 1).

Recharge occurs in the areas above the flood plains of the streams. Forested areas in this portion of the Piedmont region have permeable soils into which rainfall seeps. Some of the rainwater moves laterally through the soil to discharge areas; the remainder seeps beneath the soil zone into the residual material and works its way down to the fracture zones of the crystalline rock (Ref. 4). The average annual precipitation in the Blacksburg area is 47 inches, but less than 6 inches of this amount is available for groundwater recharge (Ref. 5).

Monsanto Textiles Company is located 2 miles northeast of Blacksburg, near the North Carolina-South Carolina border. The two largest towns within a three mile radius of Monsanto are Blacksburg, South Carolina, and Grover, North Carolina. The total population within the radius is 5593 people (Refs. 1, 6).

Mr. Narindar Kumar
Environmental Protection Agency
TDD No. F4-8801-30
June 1, 1988 - Page 3

The town of Blacksburg, with a population of 1873, uses surface water obtained from Gaffney, South Carolina, 9 miles to the southwest. The water is drawn from the Broad River and from Lake Whelchel, to the north of Gaffney. Both water bodies are outside the three mile radius of the site (Refs. 6,7).

Grover, N. C. supplies 1064 people with drinking water from five wells ranging in depth from 240 to 363 feet (Ref. 6). The remaining 2656 people in the 3-mile radius use private wells for their drinking water (Ref. 1).

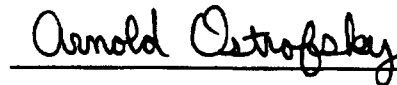
If contaminants were present, the tributary to the Bee Branch could be affected. Blacksburg had previously been using a drinking water intake and treatment plant on Buffalo Creek, which is fed by the Bee Branch and its tributaries, but closed it down for modernization. Since the closing of the Blacksburg water treatment plant, water from the Buffalo Creek is no longer used for drinking water. Plans for modernization have now been dropped as it is more cost-efficient to master-meter water from the Gaffney system (Ref. 9).

Based upon the enclosures and above referenced material, no further remedial action planned is recommended for Monsanto Textiles Company. If you have any questions on this matter, please contact me at NUS Corporation.

Very truly yours,


Jerri Higgins
Project Manager

Approved:


Arnold Ostrofsky

JH/dw

Enclosures

cc: Susan Deihl

REFERENCES

1. Dziekan, T., SCDHEC, 1987, Preliminary Assessment Narrative.
2. Dixon, Ernest, Assistant Manager of Export Leaf Tobacco Company. Personal communication with Jerri Higgins, NUS Corporation, May 10, 1988. RE: Location and use of Well #3.
3. South Carolina State Water Assessment, 1983, South Carolina Water Resources Commission.
4. Aller, Linda, et. al., 1985, DRASTIC: A Standardized System for Evaluating Groundwater Pollution Potential Using Hydrogeologic Settings, USEPA.
5. Hershfield, David M., 1985. Cooperative Studies Section, Hydrologic Service Division, Rainfall Frequency Atlas of the United States.
6. NUS Corporation, Field Notes, Log Book #F4-679, February 16, 1988.
7. Topographic Quadrangles: Grover, N. C. - S. C., Blacksburg North, S. C., Blacksburg South, S. C., Cleveland, S. C. (1971).
8. Map of Distribution Lines of Water Department in Grover, N. C. including location of wells.
9. Love, Reed, Town Manager of Blacksburg S. C. Personal communication with Jerri Higgins, NUS Corporation, May 13, 1988. RE: status of Blacksburg, S. C. Water Treatment Plant.

RECONNAISSANCE CHECKLIST FOR HRS2 CONCERNS

Instructions: Obtain as much "up front" information as possible prior to conducting fieldwork. Complete the form in as much detail as you can, providing attachments as necessary. Cite the source for all information obtained.

Site name: Monsanto Textiles Company
City, County, State: Blacksburg, Cherokee, South Carolina
EPA ID No.: SCD 001700863
Person responsible for form: Jerri Higgins
Date: 5/6/88

Air Pathway

Describe any potential air emission sources onsite: none

Identify any sensitive environments within 4 miles: none

Identify the maximally exposed individual (nearest residence or regularly occupied building - workers do count): NA

Groundwater Pathway

Identify any areas of karst terrain: none

Identify additional population due to consideration of wells completed in overlying aquifers to the AOC: NA

Do significant targets exist between 3 and 4 miles from the site? no

Is the AOC a sole source aquifer according to Safe Drinking Water Act? (i.e. is the site located in Dade, Broward, Volusia, Putnam, or Flagler County, Florida) no

Surface Water Pathway

Are there intakes located on the extended 15-mile migration pathway? no

Are there recreational areas, sensitive environments, or human food chain targets (fisheries) along the extended pathway? Recreational areas (Ref. 6)

Onsite Exposure Pathway

Is there waste or contaminated soil onsite at 2 feet below land surface or higher? no

Is the site accessible to non-employees (workers do not count)? portions of site are fenced off, but not all. (Ref. 6)

Are there residences, schools, or daycare centers onsite or in close proximity? no (Ref. 7)

Are there barriers to travel (e.g., a river) within one mile? a tributary to a creek within 500 feet (Ref. 7)



Potential Hazardous Waste Site

Site Inspection Report



Site Inspection Report



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
SC	D001700863

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site) Monsanto Textiles Company		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER Hwy. I-85 P.O. Box 165	
03 CITY Blacksburg	04 STATE SC	05 ZIP CODE 29702	06 COUNTY Cherokee
09 COORDINATES LATITUDE 35° 08' 57.7" N LONGITUDE 081° 29' 03.9" W		10 TYPE OF OWNERSHIP (Check one) <input checked="" type="checkbox"/> A. PRIVATE <input type="checkbox"/> B. FEDERAL <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input type="checkbox"/> E. MUNICIPAL <input type="checkbox"/> F. OTHER <input type="checkbox"/> G. UNKNOWN	

III. INSPECTION INFORMATION

01 DATE OF INSPECTION 8, 7, 87 MONTH DAY YEAR	02 SITE STATUS <input type="checkbox"/> ACTIVE <input checked="" type="checkbox"/> INACTIVE	03 YEARS OF OPERATION 1968, 1982 BEGINNING YEAR ENDING YEAR
04 AGENCY PERFORMING INSPECTION (Check all that apply) <input type="checkbox"/> A. EPA <input type="checkbox"/> B. EPA CONTRACTOR <input type="checkbox"/> C. MUNICIPAL <input type="checkbox"/> D. MUNICIPAL CONTRACTOR <input checked="" type="checkbox"/> E. STATE <input type="checkbox"/> F. STATE CONTRACTOR <input type="checkbox"/> G. OTHER		

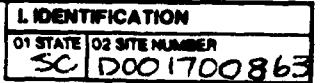
05 CHIEF INSPECTOR Thomas J. Dziekan	06 TITLE	07 ORGANIZATION SCDHEC	08 TELEPHONE NO. 803 734-5200
09 OTHER INSPECTORS	10 TITLE	11 ORGANIZATION	12 TELEPHONE NO. ()
			()
			()
			()
			()

13 SITE REPRESENTATIVES INTERVIEWED Ernest Dixon	14 TITLE assis.mgr.	15 ADDRESS Monsanto/Export Leaf Tobacco Company (present facility)	16 TELEPHONE NO. 803 839-2717
			()
			()
			()
			()
			()

17 ACCESS GAINED BY (Check one) <input type="checkbox"/> PERMISSION <input type="checkbox"/> WARRANT	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
---	-----------------------	-----------------------

IV. INFORMATION AVAILABLE FROM

01 CONTACT John Cresswell/T. Dziekan	02 OF (Agency/Organization) SCDHEC - EQC - BSHWM	03 TELEPHONE NO. 803 734-5200
04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM Jerri Higgins	05 AGENCY	06 ORGANIZATION NUS Corp.
	07 TELEPHONE NO. (404) 938-7710	08 DATE 05, 11, 88 MONTH DAY YEAR



01 PHYSICAL STATES (Check all that apply) <input type="checkbox"/> A. SOLID <input type="checkbox"/> B. POWDER, FINES <input type="checkbox"/> C. SLUDGE <input type="checkbox"/> D. OTHER _____ <i>(Specify)</i>	02 WASTE QUANTITY AT SITE <i>(Measure of waste quantities must be independent)</i> TONS _____ CUBIC YARDS _____ NO. OF DRUMS _____	03 WASTE CHARACTERISTICS (Check all that apply) <input type="checkbox"/> A. TOXIC <input type="checkbox"/> B. CORROSIVE <input type="checkbox"/> C. RADIOACTIVE <input type="checkbox"/> D. PERSISTENT <input type="checkbox"/> E. SOLUBLE <input type="checkbox"/> F. INFECTIOUS <input type="checkbox"/> G. FLAMMABLE <input type="checkbox"/> H. IGNITABLE <input type="checkbox"/> I. HIGHLY VOLATILE <input type="checkbox"/> J. EXPLOSIVE <input type="checkbox"/> K. REACTIVE <input type="checkbox"/> L. INCOMPATIBLE <input type="checkbox"/> M. NOT APPLICABLE
---	---	--

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	ONLY WASTE			
SOL	SOLVENTS	unknown	unknown	degreasing agents are a possible waste
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

[illegible]

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

State Preliminary Assessment with additional information obtained during target survey.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
SC	DC01700363

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☐ A. GROUNDWATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: 1390
02 ☐ OBSERVED (DATE: _____)
04 NARRATIVE DESCRIPTION ☒ POTENTIAL ☐ ALLEGED

Small amounts of degreasing agents used in cleaning machinery may have been disposed in landfill pits. No documentation to support such actions in file material.

01 ☐ B. SURFACE WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____)
04 NARRATIVE DESCRIPTION ☒ POTENTIAL ☐ ALLEGED

Intermittent stream tributary to Bee Branch of Buffalo Creek is 500 feet away from site. A 2.8 acre pond near the site could be contaminated if hazardous waste is present.

01 ☐ C. CONTAMINATION OF AIR
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____)
04 NARRATIVE DESCRIPTION ☐ POTENTIAL ☐ ALLEGED

unknown

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____)
04 NARRATIVE DESCRIPTION ☐ POTENTIAL ☐ ALLEGED

unknown

01 ☐ E. DIRECT CONTACT
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____)
04 NARRATIVE DESCRIPTION ☐ POTENTIAL ☐ ALLEGED

Limited access to site and security measure prevent potential direct contact.

01 ☐ F. CONTAMINATION OF SOIL
03 AREA POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____)
04 NARRATIVE DESCRIPTION ☒ POTENTIAL ☐ ALLEGED

Possibility only if hazardous waste is present.

01 ☐ G. DRINKING WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____)
04 NARRATIVE DESCRIPTION ☒ POTENTIAL ☐ ALLEGED

Possibility only if hazardous waste is present.
Well #3 on property of site is used for drinking water (2100 feet from site)

01 ☐ H. WORKER EXPOSURE/INJURY
03 WORKERS POTENTIALLY AFFECTED: unknown
02 ☐ OBSERVED (DATE: _____)
04 NARRATIVE DESCRIPTION ☐ POTENTIAL ☐ ALLEGED

Workers are present at new facility - Export Leaf Tobacco Company.

01 ☐ I. POPULATION EXPOSURE/INJURY
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____)
04 NARRATIVE DESCRIPTION ☐ POTENTIAL ☐ ALLEGED

unknown



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION
01 STATE 02 SITE NUMBER

II. HAZARDOUS CONDITIONS AND INCIDENTS (CERCLA only)

01 ☐ J. DAMAGE TO FLORA
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

none observed

01 ☐ K. DAMAGE TO FAUNA
04 NARRATIVE DESCRIPTION (include name(s) of species)

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

none observed

01 ☐ L. CONTAMINATION OF FOOD CHAIN
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

none observed

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES
(Spills/Runoff/Leaking Drums/Leaking drums)

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: _____

04 NARRATIVE DESCRIPTION

landfill pits are covered

01 ☐ N. DAMAGE TO OFFSITE PROPERTY
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

none observed

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

NA

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

none observed

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

none

III. TOTAL POPULATION POTENTIALLY AFFECTED: 1390 plus 18 workers at Export Leaf Tobacco

IV. COMMENTS

Majority of population obtains drinking water from municipal systems. In Blacksburg, water comes from the Broad River and Lake Wheelchel, near Gaffney. Previously Blacksburg used surface water from Buffalo Creek, but closed water treatment plant indefinitely. Grover, N.C. uses groundwater for municipal supply. Remainder of population within three mile radius (1390 people) uses private wells for drinking water.

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, company analysis, reports)

State Preliminary Assessment with additional information obtained during target survey.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 STATE SC 02 SITE NUMBER D001700863

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
<input checked="" type="checkbox"/> A. NPDES	SC 0039802-001	unknown		Domestic WW treatment lagoon discharges septic waste and low levels of surfactants.
<input type="checkbox"/> B. UIC				
<input type="checkbox"/> C. AIR				
<input type="checkbox"/> D. RCRA				
<input type="checkbox"/> E. RCRA INTERIM STATUS				
<input type="checkbox"/> F. SPCC PLAN				
<input checked="" type="checkbox"/> G. STATE (Specify)	IWP-179	02/4/81	02/4/84	Monsanto ceased operations at this location in 1982.
<input type="checkbox"/> H. LOCAL (Specify)				This was a permit for disposal of inert & cellulosic waste only.
<input type="checkbox"/> I. OTHER (Specify)				
<input type="checkbox"/> J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE	04 TREATMENT (Check all that apply)	05 OTHER
<input type="checkbox"/> A. SURFACE IMPOUNDMENT			<input type="checkbox"/> A. INCINERATION	<input checked="" type="checkbox"/> A. BUILDINGS ON SITE
<input type="checkbox"/> B. PILES			<input type="checkbox"/> B. UNDERGROUND INJECTION	
<input type="checkbox"/> C. DRUMS, ABOVE GROUND			<input type="checkbox"/> C. CHEMICAL/PHYSICAL	
<input type="checkbox"/> D. TANK, ABOVE GROUND			<input type="checkbox"/> D. BIOLOGICAL	
<input checked="" type="checkbox"/> E. TANK, BELOW GROUND	① 15,000	gal.	<input type="checkbox"/> E. WASTE OIL PROCESSING	06 AREA OF SITE
<input checked="" type="checkbox"/> F. LANDFILL	② 10,000	gal.	<input type="checkbox"/> F. SOLVENT RECOVERY	approx 0.52 (Acres)
<input type="checkbox"/> G. LANDFARM			<input type="checkbox"/> G. OTHER RECYCLING/RECOVERY	
<input type="checkbox"/> H. OPEN DUMP			<input type="checkbox"/> H. OTHER (Specify)	
<input type="checkbox"/> I. OTHER (Specify)				

07 COMMENTS: Oil spill of #5 oil in excess of 2,000 gallons, from the faulty pressure gauge on a pump for the underground storage tanks. Leak first discovered on December 11, 1971; cleaned up by December 22, 1971 to the satisfaction of state officials.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)
☒ A. ADEQUATE, SECURE ☐ B. MODERATE ☐ C. INADEQUATE, POOR ☐ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

Landfill consisted of 5 to 8 pits which were 150 feet long, 19 feet wide, and 15 feet deep. All waste streams limited by permit to inert and cellulosic plant waste. Frequency of covering is every 30 days.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☐ YES ☒ NO

02 COMMENTS

Site bordered by forest-covered mountain and thickly wooded areas. Only one limited access road leading to site. Site was patrolled by security personnel of Monsanto.

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, company analysis, reports)

Update of information from state Preliminary Assessment gathered during target survey



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION
01 STATE SC 02 SITE NUMBER D C 01700823

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable)	02 STATUS	03 DISTANCE TO SITE															
<table><tr><td>SURFACE</td><td>WELL</td></tr><tr><td>COMMUNITY A. <input checked="" type="checkbox"/></td><td>B. <input checked="" type="checkbox"/></td></tr><tr><td>NON-COMMUNITY C. <input type="checkbox"/></td><td>D. <input checked="" type="checkbox"/></td></tr></table>	SURFACE	WELL	COMMUNITY A. <input checked="" type="checkbox"/>	B. <input checked="" type="checkbox"/>	NON-COMMUNITY C. <input type="checkbox"/>	D. <input checked="" type="checkbox"/>	<table><tr><td>ENDANGERED</td><td>AFFECTED</td><td>MONITORED</td></tr><tr><td>A. <input type="checkbox"/></td><td>B. <input type="checkbox"/></td><td>C. <input type="checkbox"/></td></tr><tr><td>D. <input type="checkbox"/></td><td>E. <input type="checkbox"/></td><td>F. <input type="checkbox"/></td></tr></table>	ENDANGERED	AFFECTED	MONITORED	A. <input type="checkbox"/>	B. <input type="checkbox"/>	C. <input type="checkbox"/>	D. <input type="checkbox"/>	E. <input type="checkbox"/>	F. <input type="checkbox"/>	A. <u>215</u> B. <u><3</u> (mi) B. <u>0.4</u> (mi)
SURFACE	WELL																
COMMUNITY A. <input checked="" type="checkbox"/>	B. <input checked="" type="checkbox"/>																
NON-COMMUNITY C. <input type="checkbox"/>	D. <input checked="" type="checkbox"/>																
ENDANGERED	AFFECTED	MONITORED															
A. <input type="checkbox"/>	B. <input type="checkbox"/>	C. <input type="checkbox"/>															
D. <input type="checkbox"/>	E. <input type="checkbox"/>	F. <input type="checkbox"/>															

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☐ A. ONLY SOURCE FOR DRINKING
☒ B. DRINKING (Other sources available)
COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available)
☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available)
☐ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER <u>1380</u>	03 DISTANCE TO NEAREST DRINKING WATER WELL <u>0.4</u> (mi)			
04 DEPTH TO GROUNDWATER <u>150</u> (ft)	05 DIRECTION OF GROUNDWATER FLOW <u>unknown</u>	06 DEPTH TO AQUIFER OF CONCERN (ft)	07 POTENTIAL YIELD OF AQUIFER (gpd)	08 SOLE SOURCE AQUIFER <input type="checkbox"/> YES <input type="checkbox"/> NO

09 DESCRIPTION OF WELLS (including usage, depth, and location relative to population and buildings)

Well #3 on Monsanto property is 2100 feet (0.4 mi) from site, and is still used today by the current tenants of the facility, Export Leaf Tobacco Co. Grover N.C. which is less than 3 miles away from the site uses five wells for its public supply (597 persons), which range in depth from 240 to 363 feet deep.

10 RECHARGE AREA <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	COMMENTS	11 DISCHARGE AREA <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	COMMENTS
			500 feet from tributary stream of Bee Branch

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

☐ A. RESERVOIR, RECREATION DRINKING WATER SOURCE
☐ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES
☐ C. COMMERCIAL, INDUSTRIAL
☒ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
<u>unnamed tributary stream to Bee Branch</u>	<input type="checkbox"/>	<u>0.09</u> (mi)
<u>confluence of Bee Branch & Buffalo Creek</u>	<input type="checkbox"/>	<u>2.9</u> (mi)
	<input type="checkbox"/>	

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN ONE (1) MILE OF SITE A. <u>NO OF PERSONS</u>	TWO (2) MILES OF SITE B. <u>NO OF PERSONS</u>	THREE (3) MILES OF SITE C. <u>5126</u> NO OF PERSONS	02 DISTANCE TO NEAREST POPULATION <u>0.13</u> (mi)
03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE <u>101-1000</u>	04 DISTANCE TO NEAREST OFF-SITE BUILDING <u>0.13</u> (mi)		

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

Moderately populated rural area approximately 2 miles northeast of Blacksburg, S.C.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
SC. 120017008e3

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A. $10^{-6} - 10^{-8}$ cm/sec ☒ B. $10^{-4} - 10^{-6}$ cm/sec ☐ C. $10^{-4} - 10^{-3}$ cm/sec ☐ D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☐ A. IMPERMEABLE
(Less than 10^{-6} cm/sec) ☒ B. RELATIVELY IMPERMEABLE
($10^{-6} - 10^{-8}$ cm/sec) ☐ C. RELATIVELY PERMEABLE
($10^{-2} - 10^{-4}$ cm/sec) ☐ D. VERY PERMEABLE
(Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK

~100 (ft)

04 DEPTH OF CONTAMINATED SOIL ZONE

unknown (ft)

05 SOIL pH

unknown

06 NET PRECIPITATION

6.0 (in)

07 ONE YEAR 24 HOUR RAINFALL

3.0 (in)

08 SLOPE
SITE SLOPE

7.1 %

DIRECTION OF SITE SLOPE

TERRAIN AVERAGE SLOPE

4.0 %

09 FLOOD POTENTIAL

SITE IS IN unknown YEAR FLOODPLAIN

10

☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE

OTHER

A. >25 (mi)

B. _____ (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

>25 (mi)

ENDANGERED SPECIES: _____

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL

RESIDENTIAL AREAS; NATIONAL/STATE PARKS,
FORESTS, OR WILDLIFE RESERVES

AGRICULTURAL LANDS
PRIME AG LAND AG LAND

A. 2.0 (mi)

B. 0.2 (mi)

C. unknown (mi) D. unknown (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

The land which Monsanto Textiles Company was located on is bordered by a 260 foot forest-covered mountain to the south and thickly wooded areas to the east and west of the site. Blacksburg, S.C. is located in the Piedmont Physiographic Province in an area of moderate relief at altitudes ranging from 800 to 1000 feet. The area is located in the sub-basin of the Broad River.

VII. SOURCES OF INFORMATION (Can specify references, e.g., state files, sample analysis, reports)

1. State Preliminary Assessment with additional information obtained during target survey.
2. South Carolina State Water Assessment, 1983, South Carolina Water Resources Commission.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
SC D001700863

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER			
SURFACE WATER			
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL			
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS

IV. PHOTOGRAPHS AND MAPS

01 TYPE <input type="checkbox"/> GROUND <input type="checkbox"/> AERIAL	02 IN CUSTODY OF _____ <small>(Name of organization or individual)</small>
03 MAPS <input type="checkbox"/> YES <input type="checkbox"/> NO	04 LOCATION OF MAPS _____

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

No samples were collected

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

State Preliminary Assessment
EPA file material



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
SC D001700863

II. CURRENT OWNER(S)

PARENT COMPANY (if applicable)

01 NAME Export Leaf Tobacco Co.	02 D+B NUMBER unknown	08 NAME NA	09 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.) I-85 and Hwy 99	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE
05 CITY Blacksburg	06 STATE S.C.	07 ZIP CODE 29702	12 CITY
13 STATE	14 ZIP CODE	08 NAME	09 D+B NUMBER
01 NAME	02 D+B NUMBER	08 NAME	09 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	12 CITY
13 STATE	14 ZIP CODE	08 NAME	09 D+B NUMBER
01 NAME	02 D+B NUMBER	08 NAME	09 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	12 CITY
13 STATE	14 ZIP CODE	08 NAME	09 D+B NUMBER
01 NAME	02 D+B NUMBER	08 NAME	09 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	12 CITY
13 STATE	14 ZIP CODE	08 NAME	09 D+B NUMBER

III. PREVIOUS OWNER(S) (List most recent first)

IV. REALTY OWNER(S) (if applicable: list most recent first)

01 NAME Monsanto Textiles Co.	02 D+B NUMBER SCD001700863	01 NAME NA	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.) 800 N. Lindbergh Blvd (Corporate Office)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY St. Louis	06 STATE MO	07 ZIP CODE 63167	08 CITY
09 STATE	10 ZIP CODE	01 NAME	02 D+B NUMBER
01 NAME Blacksburg Textile Chemstrand	02 D+B NUMBER unknown	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY Blacksburg	06 STATE SC	07 ZIP CODE 29702	08 CITY
09 STATE	10 ZIP CODE	01 NAME	02 D+B NUMBER
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	08 CITY
09 STATE	10 ZIP CODE	01 NAME	02 D+B NUMBER

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

State Preliminary Assessment with additional information
obtained during target survey.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

SC D001700863

II. CURRENT OPERATOR (Provide if different from owner)				OPERATOR'S PARENT COMPANY (If applicable)			
01 NAME NA		02 D+B NUMBER		10 NAME NA		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
06 CITY		08 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
09 YEARS OF OPERATION		09 NAME OF OWNER					
III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)				PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)			
01 NAME NA		02 D+B NUMBER		10 NAME NA		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
06 CITY		08 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
09 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					
01 NAME		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
06 CITY		08 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
09 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					
01 NAME		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
06 CITY		08 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
09 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analyses, reports)

State Preliminary Assessment and additional
information obtained during target survey.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
SC	DC01700863

II. ON-SITE GENERATOR

01 NAME	02 D+B NUMBER	
NA		
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	
05 CITY	06 STATE 07 ZIP CODE	

III. OFF-SITE GENERATOR(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
NA			
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
NA			
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

State Preliminary Assessment and additional information
obtained during target survey.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

SC D001700863

II. PAST RESPONSE ACTIVITIES

01 ☐ A. WATER SUPPLY CLOSED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ B. TEMPORARY WATER SUPPLY PROVIDED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ C. PERMANENT WATER SUPPLY PROVIDED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☒ D. SPILLED MATERIAL REMOVED
04 DESCRIPTION

02 DATE 12/11/91 to 12/22/91

03 AGENCY Monsanto Textiles Co.

#5 Oil spill in excess of 2000 gals. — cleanup process removed over 5000 gallons of oil-water mixture. Later sawdust & oil (unknown quantity) were removed and hauled to Monsanto.

01 ☒ E. CONTAMINATED SOIL REMOVED
04 DESCRIPTION

02 DATE 12/11 to 12/22 of 1991

03 AGENCY Monsanto Textiles Co.

sawdust and oil and dirt mixture which had served as a barricade to seeping oil, were removed and placed in a pit on Monsanto property.

01 ☐ F. WASTE REPACKAGED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ G. WASTE DISPOSED ELSEWHERE
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ H. ON SITE BURIAL
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ I. IN SITU CHEMICAL TREATMENT
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ J. IN SITU BIOLOGICAL TREATMENT
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ K. IN SITU PHYSICAL TREATMENT
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ L. ENCAPSULATION
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ M. EMERGENCY WASTE TREATMENT
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ N. CUTOFF WALLS
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ O. EMERGENCY DIKING/SURFACE WATER DIVERSION
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ P. CUTOFF TRENCHES/SUMP
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

01 ☐ Q. SUBSURFACE CUTOFF WALL
04 DESCRIPTION

02 DATE _____

03 AGENCY _____



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE SC 02 SITE NUMBER D001700863

II. PAST RESPONSE ACTIVITIES (Continued)

01 ☐ R. BARRIER WALLS CONSTRUCTED

02 DATE 12/11/91 to 12/22/91 03 AGENCY Monsanto Technical Co

04 DESCRIPTION

Sawdust placed in open ditch to absorb remaining oil

01 ☐ S. CAPPING/COVERING

02 DATE _____

03 AGENCY _____

04 DESCRIPTION

After area was scraped, straw placed to prevent erosion and soak any remaining oil which might seep from underground.

01 ☐ T. BULK TANKAGE REPAIRED

02 DATE _____

03 AGENCY _____

04 DESCRIPTION

01 ☐ U. GROUT CURTAIN CONSTRUCTED

02 DATE _____

03 AGENCY _____

04 DESCRIPTION

01 ☐ V. BOTTOM SEALED

02 DATE _____

03 AGENCY _____

04 DESCRIPTION

01 ☐ W. GAS CONTROL

02 DATE _____

03 AGENCY _____

04 DESCRIPTION

01 ☐ X. FIRE CONTROL

02 DATE _____

03 AGENCY _____

04 DESCRIPTION

01 ☐ Y. LEACHATE TREATMENT

02 DATE _____

03 AGENCY _____

04 DESCRIPTION

01 ☐ Z. AREA EVACUATED

02 DATE _____

03 AGENCY _____

04 DESCRIPTION

01 ☐ 1. ACCESS TO SITE RESTRICTED

02 DATE _____

03 AGENCY _____

04 DESCRIPTION

01 ☐ 2. POPULATION RELOCATED

02 DATE _____

03 AGENCY _____

04 DESCRIPTION

01 ☐ 3. OTHER REMEDIAL ACTIVITIES

02 DATE _____

03 AGENCY _____

04 DESCRIPTION

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analyses, reports)

State Preliminary Assessment and additional information obtained during target survey



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

L IDENTIFICATION

01 STATE	02 SITE NUMBER
SC	000176863

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☐ YES ☒ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analyses, reports)

State Preliminary Assessment and additional information
obtained during target survey.

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

General Information

The Potential Hazardous Waste Site, Site Inspection Report form is used to record information collected during, or associated with, an inspection of the site and other information about responsible parties and past response activities.

The Site Inspection Report form contains eleven parts:

- Part 1 – Site Location and Inspection Information
- Part 2 – Waste Information
- Part 3 – Description of Hazardous Conditions and Incidents
- Part 4 – Permit and Descriptive Information
- Part 5 – Water, Demographic, and Environmental Data
- Part 6 – Sample and Field Information
- Part 7 – Owner Information
- Part 8 – Operator Information
- Part 9 – Generator/Transporter Information
- Part 10 – Past Response Activities
- Part 11 – Enforcement Information

Part 1 – Site Location and Inspection Information contains all of the data elements also contained on the Site Identification and Preliminary Assessment forms required to add a site to the automated Site Tracking System (STS). It is therefore possible to add a site to STS at the Site Inspection stage. Instructions are given below.

Part 2 – Waste Information and Part 3 – Description of Hazardous Conditions and Incidents are used to record specific information about substances, amounts, hazards, and targets, e.g., population potentially affected. Parts 2 and 3 are also contained in the Potential Hazardous Waste Site, Preliminary Assessment form. Information recorded on Part 2 and Part 3 during a preliminary assessment may be updated, added, deleted, or corrected on the Site Inspection Report form.

An Appendix with feedstock names and CAS Numbers and the most frequently cited hazardous substances and CAS Numbers is located behind the instructions for the Site Inspection Report.

A number of the data items collected throughout the Site Inspection Report support the Site Ranking Model. The majority of these data items are found in Part 5 – Water, Demographic, and Environmental Data.

General Instructions

1. Complete the Site Inspection Report form as completely as possible.
2. Starred items (*) are required before inspection information can be added to STS. The system will not accept incomplete inspection information.
3. To add a site to STS at the Site Inspection stage, write "New" across the top of the form and complete items 11-01, 02, 03, 04, and 06, Site Name and Location, 11-09 Co-ordinates, and 11-10, Type of Ownership.
4. Data items carried in STS, which are identical to those on the Site Identification and Preliminary Assessment forms and which can be added, deleted, or changed using the

Site Inspection Report form, are indicated with a pound sign (#). To ensure that the proper action is taken, outline the item(s) to be added, deleted, or changed with a bright color and indicate the proper action with "A" (add), "D" (delete) or "C" (change).

5. There are two options available for adding, deleting, or changing information supplied on the Site Inspection Report form. The first is to use a new Site Inspection Report form, completing only those items to be added, deleted, or changed. Mark the form clearly, using "A", "D", or "C", to indicate the action to be taken. If only data in STS are to be altered, the Site Source Data Report may be used. Using the report, mark clearly the items to be changed and the action to be taken.

Detailed Instructions

Part 1 Site Location and Inspection Information

I. Identification: Identification (State and Site Number) is the site record key, or primary identifier, for the site. Site records in the STS are updated based on Identification. It is essential that State and Site Number are correctly entered on each form.

*1-01 State: Enter the two character alpha FIPS code for the state in which the site is located. It must be identical to State on the Site Identification form.

*1-02 Site Number: Enter the ten character alphanumeric code for sites which have a Dun and Bradstreet or EPA "user" Dun and Bradstreet number or the ten character numeric GSA identification code for federal sites. The Site Number must be identical to the Site Number on the Site Identification and Preliminary Assessment forms.

II. Site Name and Location: If Site Name and Location information require no additions or changes, these items are not required on the Site Inspection Report form. However, completing these items will facilitate use of the completed form and records management procedures.

#11-01 Site Name: Enter the legal, common, or descriptive name of the site.

#11-02 Site Street: Enter the street address and number (if appropriate) where the site is located. If the precise street address is unavailable for this site, enter brief direction identifier, e.g., NW Jct I-295 & US 99; Post Rd, 5 mi W of Rt. 5.

#11-03 Site City: Enter the city, town, village, or other municipality in which the site is located. If the site is not located in a municipality, enter the name of the municipality (or place) which is nearest the site or which most easily locates the site.

#11-04 Site State: Enter the two character alpha FIPS code for the state in which the site is located. The code must be the same as in item 1-01.

#11-05 Site Zip Code: Enter the five character numeric zip code for the postal zone in which the site is located.

- #II-06 Site County: Enter the name of the county, parish (Louisiana), or borough (Alaska) in which the site is located.
 - #II-07 County Code: Enter the three character numeric FIPS county code for the county, parish, or borough in which the site is located. (The regional data analyst can furnish this data item.)
 - #II-08 Site Congressional District: Enter the two character number for the congressional district in which the site is located.
 - *#II-09 Coordinates: Enter the Coordinates, Latitude and Longitude, of the site in degrees, minutes, seconds, and tenths of seconds. If a tenth of a second is insignificant at this site, enter "0" in the tenths position.
 - #II-10 Type of Ownership: Check the appropriate box to indicate the type of site ownership. If the site is under the jurisdiction of an activity of the federal government, enter the name of the department, agency, or activity. If Other is indicated, specify the type of ownership and name.
- III. Inspection Information**
- *III-01 Date of Inspection: Enter the date the inspection occurred, or began for multiple day inspections.
 - *III-02 Site Status: Check the appropriate box(es) to indicate the current status of the site. Active sites are those which treat, store, or dispose of wastes. Check Active for those active sites with an inactive storage or disposal area. Inactive sites are those at which treatment, storage, or disposal activities no longer occur.
 - #III-03 Years of Operation: Enter the beginning and ending years (or beginning only if operations at the site are on-going), e.g., 1878/1932, of site operation. Check Unknown if years of operation are not known.
 - *III-04 Agency Performing Inspection: Check the appropriate box(es) to indicate parties participating in the inspection. If contractors participate, provide the name of the firm(s).
 - III-05 Chief Inspector: Enter the name of the chief, or lead inspector.
 - III-06 Title: Enter the Chief Inspector's title, e.g., Team Leader, FIT team.
 - III-07 Organization: Enter the name of the organization where the Chief Inspector is employed, e.g., EPA - Region 4, VA State Health Dept., Environmental Research Co.
 - III-08 Telephone Number: Enter the Chief Inspector's area code and local commercial telephone number.
 - III-09 Other Inspectors: Enter the names of other parties participating in the inspection.
 - III-10 Title: Enter the titles of other parties participating in the inspection.
 - III-11 Organization: Enter the names of the organizations where other parties participating in the inspection are employed.
 - III-12 Telephone Number: Enter the area code and local commercial telephone numbers of other parties participating in the inspection.

- III-13 Site Representatives Interviewed: Enter the names of individuals representing responsible parties interviewed in connection with the inspection. Interviews do not necessarily occur during the inspection.
- III-14 Title: Enter the titles of the individuals interviewed.
- III-15 Address: Enter the business, mailing, or residential addresses of the individuals interviewed.
- III-16 Telephone Number: Enter the area code and local commercial telephone numbers of the individuals interviewed.
- III-17 Access Gained By: Check the appropriate box to indicate whether access to the site was gained through permission or warrant.
- III-18 Time of Inspection: Using a 24-hour clock, enter the time the inspection began, e.g., for 3:24 p.m. enter 1524.
- III-19 Weather Conditions: Describe the weather conditions during the site inspection, especially any unusual conditions which might affect results or observations taken.

IV. Information Available From

- IV-01 Contact: Enter the name of the individual who can provide information about the site.
- IV-02 Of: If appropriate, enter the name of the public or private agency, firm, or company and the organization within the agency, firm, or company of the individual named as Contact.
- IV-03 Telephone Number: Enter the area code and local telephone number of the individual named as contact.
- IV-04 Person Responsible for Site Inspection Report Form: Enter the name of the individual who was responsible for the information entered on the Site Inspection Report form. The person responsible for the Site Inspection Report form may be different from the individual who prepared the form.
- IV-05 Agency: Enter the name of the Agency where the individual who is responsible for the Site Inspection Report form is employed.
- IV-06 Organization: Enter the name of the organization within the Agency.
- IV-07 Telephone Number: Enter the area code and local telephone number of the individual who is responsible for the Site Inspection Report form.
- IV-08 Date: Enter the date the Site Inspection Report form was prepared.

Part 2 Waste Information

- *I. Identification: Refer to Part 1-I.
- II. Waste States, Quantities, and Characteristics: Waste States, Quantities, and Characteristics provide information about the physical structure and form of the waste, measures of gross amounts at the site, and the hazards posed by the waste, considering acute and chronic health effects and mobility along a pathway.

- *II-01 Physical States: Check the appropriate box(es) to indicate the state(s) of waste present at the site. If Other is indicated, specify the physical state of the waste.
- *II-02 Waste Quantity at Site: Enter estimates of amounts of waste at the site. Estimates may be in weight (Tons) or volume (Cubic Yards or Number of Drums). Use as many entries as are appropriate; however, measurements must be independent. For example, do not measure the same amounts of waste as both tons and cubic yards.
- *II-03 Waste Characteristics: Check all appropriate entries to indicate the hazards posed by waste at the site. If waste at the site poses no hazard, check Not Applicable.
- III. Waste Category: General categories of waste typically found are listed here. Enter the estimated gross amount of each category of waste and the appropriate unit of measure.
- *III-01 Gross Amount: Gross Amount is the estimate of the amount of the waste category found at the site. Estimates should be furnished in metric tons (MT), tons (TN), cubic meters (CM), cubic yards (CY), drums (DR), acres (AC), acre feet (AF), liters (LT), or gallons (GA). Enter the estimated amount next to the appropriate waste category.
- *III-02 Unit of Measure: Enter the appropriate unit of measure, MT (metric tons), TN (tons), CM (cubic meters), CY (cubic yards), DR (number of drums), AC (acres), AF (acre feet), LT (liters), or GA (gallons) next to the estimate of gross amount.
- III-03 Comments: Comments may be used to further explain, or provide additional information, about particular waste categories.
- IV. Hazardous Substances: Specific hazardous, or potentially hazardous, chemicals, mixtures, and substances found at the site are listed here. For each substance listed those data items marked with an "at" sign (@) must be included.
- @IV-01 Category: Enter in front of the substance name the three character waste category from Section III which best describes the substance, e.g., OLW (Oily Waste).
- @IV-02 Substance Name: Enter one of the following: the name of the substance registered with the Chemical Abstract Service, the common or accepted abbreviation of the substance, the generic name of the substance, or commercial name of the substance.
- @IV-03 CAS Number: Enter the number assigned to the substance when it was registered with the Chemical Abstract Service. Refer to the Appendix for most frequently cited CAS Numbers. CAS Numbers must be furnished for each substance listed. If a CAS Number for this substance has not been assigned, enter "999".
- @IV-04 Storage/Disposal Method: Enter the type of storage or disposal facility in which the substance was found: SI (surface impoundment, including pits, ponds, and lagoons), PL (pile), DR (drum), TK (tank), LF (landfill), LM (landfarm), OD (open dump).
- IV-05 Concentration: Enter the concentration of the substance found in samples taken at the site.
- IV-06 Measure of Concentration: Enter the appropriate unit of measure for the measured concentration of the substance found in the sample, e.g., MG/L, UG/L.
- V. Feedstocks
- V-01 Feedstock Name: If feedstocks, or substances derived from one or more feedstocks, are present at the site, enter the name of each feedstock found. See the Appendix for the feedstock list.
- V-02 CAS Number: Enter the CAS Number for each feedstock named. See the Appendix for feedstock CAS Numbers.
- VI. Sources of Information: List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.
- Part 3 Description of Hazardous Conditions and Incidents
- *I. Identification: Refer to Part 1-I.
- II. Hazardous Conditions and Incidents:
- II-01 Hazards: Indicate each hazardous, or potentially hazardous, condition known, or claimed, to exist at the site.
- II-02 Observed, Potential, or Alleged: Check Observed and enter the date, or approximate date, of occurrence if a release of contaminants to the environment, or some other hazardous incident, is known to have occurred. In cases of a continuing release, e.g., groundwater contamination, enter the date, or approximate date, the condition first became apparent. If conditions exist for a potential release, check potential. Check Alleged for hazardous, or potentially hazardous, conditions claimed to exist at the site.
- II-03 Population Potentially Affected: For each hazardous condition at the site, enter the number of people potentially affected. For Soil enter the number of acres potentially affected.
- II-04 Narrative Description: Provide a narrative description, or explanation, of each condition. Include any additional information which further explains the condition.
- II-05 Description of Any Other Known, Potential, or Alleged Hazards: Provide a narrative description of any other hazardous, or potentially hazardous, conditions at the site not covered above.
- III. Total Population Potentially Affected: Enter the total number of people potentially affected by the existence of hazardous, or potentially hazardous, conditions at the site. Do not sum the numbers shown for each condition.
- IV. Comments: Other information relevant to observed, potential, or alleged hazards may be entered here.

- V. Sources of Information:** List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.

Part 4 Permit and Descriptive Information

- *I. Identification:** Refer to Part 1-I.

II. Permit Information

- II-01** Type of Permit Issued: Check the appropriate box(es) to indicate the types of permits issued to the site. If state, local, or other types of environmental permits have been issued, specify the type.
- II-02** Permit Number: Enter the permit number for each issued permit.
- II-03** Date Issued: Enter the date each permit was issued.
- II-04** Expiration Date: Enter the date each permit expires or expired.
- II-05** Comments: Enter any information which further explains the types of permits issued or status of the permits.

III. Site Description

- *III-01** Storage/Disposal: Check the appropriate box(es) to indicate the types of storage/disposal facilities found at the site. If Other is checked, specify the type of facility.
- *III-02** Amount: Enter the gross amount of waste associated with each type of storage/disposal facility. Amounts may be measured in: metric tons, tons, cubic meters, cubic yards, drums, acres, acre feet, liters, or gallons.
- *III-03** Unit of Measure: Enter the appropriate unit of measure for each entry. Units of measure are MT (metric tons), TN (tons), CM (cubic meters), CY (cubic yards), DR (drums), AC (acres), AF (acre feet), LT (liters), or GA (gallons).
- *III-04** Treatment: If waste is treated at the site, check the appropriated box(es) to indicate treatment methods used. If Other is checked, specify treatment method.
- III-05** Other: If there are buildings on site, check this box.
- *III-06** Area of Site: Enter total area of site in acres.
- III-07** Comments: Enter any other pertinent information.

- IV. Containment:** Containment is a measure of the natural or artificial means taken to minimize or preclude health hazards and to minimize or prevent contamination of the environment from waste at the site.

- *IV-01** Containment of Wastes: Check the appropriate box to indicate the condition of containment measures at the site. When choosing the appropriate box, consider the potential for environmental contamination, i.e., the worst case for containment in conjunction with the most hazardous substances.
- IV-02** Description of Drums, Diking, Liners, Barriers: Provide a narrative description of the condition of containment measures at the site, e.g., waste ade-

quately contained, drums rusting and leaking, diking collapsing, liners leaking and contaminants leaching into soil and groundwater.

- V. Accessibility:** Accessibility is an indicator of the potential for direct contact with hazardous substances.

- *V-01** Waste Easily Accessible: If there are no real barriers preventing human access to hazardous waste, check Yes, otherwise check No.

- V-02** Comments: Additional information about accessibility to hazardous waste may be provided.

- VI. Sources of Information:** List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.

Part 5 Water, Demographic, and Environmental Data

- *I. Identification:** Refer to Part 1-I.

II. Drinking Water Supply

- II-01** Type of Drinking Water Supply: Check the appropriate box(es) to indicate the types and sources of drinking water within the vicinity of the site. Community refers to municipal sources. Non-community refers to private sources, e.g., private wells.
- II-02** Status: Check the appropriate box(es) to indicate whether the water supply is endangered or affected by contaminants from the site. Check the appropriate box to indicate if the water supply is being monitored for possible contamination.
- II-03** Distance to Site: Enter the distance in miles to the nearest tenth, hundredth, or thousandth (as needed to indicate the precision required) from the site to nearest drinking water source.

III. Groundwater

- III-01** Groundwater Use in Vicinity: Check the appropriate box to indicate groundwater use in the vicinity of the site. The concern is to indicate the seriousness of groundwater contamination from waste at the site. Only Source for Drinking indicates that current water sources are limited to wells in the vicinity of the site. Drinking; Commercial, Industrial, Irrigation indicates that groundwater is used for drinking, but that other limited drinking sources are available and that no other sources for these additional uses are available. Commercial, Industrial, Irrigation indicates that groundwater is used for these purposes, but that limited other sources of water are available. Not used, Unuseable indicates that groundwater use in the area is not critical.

- III-02** Population Served by Groundwater: Enter the number of people served by groundwater in the vicinity of the site. Population for the purposes of the Site Inspection Report includes residents and daytime workers and students but excludes transients in the neighborhood or on local highways and roads. When estimating population from aerial photographs or other sources, the conversion factor is 3.8 persons for each dwelling unit or 3 persons per acre in rural areas.

- III-03 Distance to Nearest Drinking Water Well: Enter the distance in miles to the nearest tenth, hundredth, or thousandth (as needed to indicate the precision required) from the site to the nearest drinking water well.
- III-04 Depth to Groundwater: Enter the depth in feet to groundwater.
- III-05 Depth of Groundwater Flow: Enter the cardinal direction of groundwater flow, e.g., NNW.
- III-06 Depth to Aquifer of Concern: Enter the depth in feet to the aquifer of concern.
- III-07 Potential Yield of Aquifer: Enter the potential yield of the aquifer in gallons per day.
- III-08 Sole Source Aquifer: Check the appropriate box to indicate the aquifer of concern is, or is not, a sole source aquifer.
- III-09 Description of Wells: Provide a narrative description of wells in the vicinity of the site, including usage, depth, and location relative to population and buildings.
- III-10 Recharge Area: Check the appropriate box to indicate the site is located in a recharge area. Comments provide additional information on the recharge area.
- III-11 Discharge Area: Check the appropriate box to indicate the site is located in a discharge area. Comments provide additional information on the discharge area.

IV. Surface Water

- IV-01 Surface Water Use: Check the appropriate box to indicate surface water use in the vicinity of the site. The order of precedence is Reservoir, Recreation, Drinking Water Source; Irrigation, Economically Important Reserves; Commercial/Industrial; Not Currently Used.
- IV-02 Affected/Potentially Affected Bodies of Water: Enter the names of bodies of surface water affected, or potentially affected, by contaminants from the site. List the body of surface water nearest the site first. For each body of water check Affected if contaminants have been identified in samples of the water. Enter the shortest distance from the body of water to the site in miles to the nearest tenth, hundredth, or thousandth (as needed to indicate the precision required).

V. Demographic and Property Information

- V-01 Total Population Within: Enter the total population within one (1) mile, two (2) miles, and three (3) miles of the site. Distances are measured from site boundaries. Population for the purposes of the Site Inspection Report includes residents and daytime workers and students but excludes transients in the neighborhood or on local highways and roads. When estimating population from aerial photographs or other sources, the conversion factor is 3.8 persons for each dwelling unit or 3 persons per acre in rural areas.
- V-02 Distance to Nearest Population: Enter in miles to the nearest tenth, hundredth, or thousandth (as needed to indicate the precision required) the dis-

tance from the site boundary to the nearest population (one person minimum).

- V-03 Number of Buildings Within Two (2) Miles of Site: Enter the number of buildings within two miles from the boundaries of the site.
- V-04 Distance to Nearest Off-Site Building: Enter the distance in miles to the nearest tenth, hundredth, or thousandth (as needed to indicate the precision required) from the site boundary to the nearest off-site building.
- V-05 Population in Vicinity of Site: Provide a narrative description of the nature of the population within the vicinity of the site. Examples include rural area, small truck farms, urban industrial area, densely populated urban residential area.

VI. Environmental Information

- VI-01 Permeability of Unsaturated Zone: Check the appropriate box to indicate the permeability of the earth material above the water table in the vicinity of the site.
- VI-02 Permeability of Bedrock: Check the appropriate box to indicate the permeability of the bedrock in the vicinity of the site.
- VI-03 Depth to Bedrock: Enter the depth to bedrock in feet.
- VI-04 Depth of Contaminated Soil Zone: Enter the depth of the contaminated soil zone in feet.
- VI-05 Soil pH: Enter the pH of the soil in the vicinity of the site.
- VI-06 Net Precipitation: Enter net precipitation in inches. If net precipitation is not known, subtract the average evaporation figure on the U.S. National Weather Service map showing average annual evaporation in inches from the U.S. Environmental Data Service map showing mean annual precipitation.
- VI-07 One Year 24 Hour Rainfall: Enter in inches the figure for one year 24 hour rainfall.
- VI-08 Slope: Enter the percentage of site slope, the direction of site slope, and the percentage of the surrounding terrain average slope.
- VI-09 Flood Potential: Enter the boundary year for the floodplain in which the site is located. Sites flooded annually are in a 1 (one) year floodplain. Other examples include 10, 20, 50, 100, 500, etc., indicating the probability of flooding within that time period.
- VI-10 Site is on Barrier Island, Coastal High Hazard Area, Riverine Floodway: If site is located in one of these areas, check this box.
- VI-11 Distance to Wetlands: If applicable, enter the distance in miles to the nearest tenth, hundredth, or thousandth (as needed to indicate the precision required) from the site to the closest wetlands (five acre minimum) for Estuarine and Other types of wetlands.
- VI-12 Distance to Critical Habitat: If applicable, enter the distance in miles to the nearest tenth, hundredth, or thousandth (as needed to indicate the precision required) from the site to the nearest critical habitat

of an endangered species. Enter the name(s) of the endangered species.

VI-13 Land Use in Vicinity: Enter the distance in miles to the nearest tenth, hundredth, or thousandth (as needed to indicate the precision required) to the nearest Commercial/Industrial area; Residential Area, National/State Parks, Forests, or Wildlife Reserves; or Agricultural Lands, Prime Ag Land and Ag Land. Prime Ag Land is that crop, pasture, range, or forest land which produces the highest yield in relation to inputs. Ag Land is the remaining agricultural land, frequently considered marginal.

VI-14 Description of Site in Relation to Surrounding Topography: Provide a narrative description of significant or unusual aspects of the surrounding topography in relation to the site. Examples might include: site is in a valley surrounded on all sides by mountains, site is at edge of a river or stream which floods frequently, etc.

VII. Sources of Information: List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.

Part 6 Sample and Field Information

***I. Identification:** Refer to Part 1—I.

II. Samples Taken

II-01 Number of Samples Taken: Next to each sample type enter the number of samples of that type taken.

II-02 Samples Sent To: Enter the name of the laboratory or other facility where the samples were sent for analysis.

II-03 Estimated Date Results Available: Enter the estimated date the results are expected to be available.

III. Field Measurements Taken

III-01 Type: Enter the type, e.g., radioactivity, explosivity, organic vapor or gas detection and analysis, reagent type gas detection, of each field measurement taken.

III-02 Comments: Describe results of field measurements, whether they were taken on or off site, and if applicable, the type of disposal facility tested, e.g., drum, surface impoundment, landfill.

IV. Photographs and Maps

IV-01 Type: If photographs of the site have been taken, check the appropriate box(es) to indicate the type.

IV-02 In Custody Of: Enter the name of the organization or person who has custody of the photographs.

IV-03 Maps: Check the appropriate box to indicate that maps of the site area have been prepared or obtained.

IV-04 Location of Maps: If site maps are available, indicate their location, e.g., Region 1 Air and Hazardous Materials Division.

V. Other Field Data Collected: Provide a narrative description of any other field data collected.

VI. Sources of Information: List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.

Part 7 Owner Information

***I. Identification:** Refer to Part 1—I.

II. Current Owner(s) — Parent Company: Current owner(s) and parent companies, for those owners which are companies partly or wholly owned by another company, provide locator information about responsible parties. Each Part 7 provides space for four (4) current owners and their respective parent companies. If additional space is required, complete another Part 7.

II-01 Name: Enter the legal name of the owner of the site. The owner may be a firm, government agency, association, individual, etc.

II-02 D&B Number: Where available, enter the owner's D&B (Dun and Bradstreet) number. If the current owner is a federal agency, enter the GSA identification code.

II-03 Street Address: Enter the business, mailing, or residential street address of the owner.

II-04 SIC Code: If applicable, enter the owner's primary SIC Code.

II-05 City: Enter the city of the owner's business, mailing, or residential address.

II-06 State: Enter the two character alpha FIPS code for the state of the owner's business, mailing, or residential address.

II-07 Zip Code: Enter the five digit zip code for the owner's business, mailing, or residential address.

II-08 Name: If the owner is a partly or wholly owned subsidiary of another company, enter the legal name of the owner's parent company.

II-09 D&B Number: Enter the parent company's Dun and Bradstreet number.

II-10 Street Address: Enter the business or mailing street address of the parent company.

II-11 SIC Code: If applicable, enter the parent company's primary SIC code.

II-12 City: Enter the city of the parent company's business or mailing address.

II-13 State: Enter the two character alpha FIPS code for the state of the parent company's business or mailing address.

II-14 Zip Code: Enter the five digit zip code for the parent company's business or mailing address.

III. Previous Owner(s): List previous owners in reverse chronological order, i.e., most recent first. If additional space is required, complete another Part 7.

III-01 Name: Enter the legal name of the previous owner. The previous owner may have been a firm, government agency, association, individual, etc.

- III-02 D&B Number: Enter the previous owner's Dun and Bradstreet number if available. If the previous owner was a federal agency, enter the GSA identification code if available.
- III-03 Street Address: Enter the business, mailing, or residential street address of the previous owner.
- III-04 SIC Code: If applicable, enter the primary SIC Code of the previous owner.
- III-05 City: Enter the city of the previous owner's business, mailing, or residential address.
- III-06 State: Enter the two character alpha FIPS code for the state of the previous owner's business, mailing, or residential address.
- III-07 Zip Code: Enter the zip code of the previous owner's business, mailing, or residential address.
- IV. **Realty Owner(s):** Realty owner applies when the owner leased to another entity property which was used for the storage or disposal of hazardous waste. List current or most recent first.
- IV-01 Name: Enter the legal name of the realty owner. The realty owner may be a firm, government agency, association, individual, etc.
- IV-02 D&B Number: Enter the previous owner's Dun and Bradstreet number if available. If the previous owner was a federal agency, enter the GSA identification code if available.
- IV-03 Street Address: Enter the realty owner's business, mailing, or residential street address.
- IV-04 SIC Code: If applicable, enter the realty owner's primary SIC Code.
- IV-05 City: Enter the city of the realty owner's business, mailing, or residential address.
- IV-06 State: Enter the two character alpha FIPS code for the state of the realty owner's business, mailing, or residential address.
- IV-07 Zip Code: Enter the zip code of the realty owner's business, mailing, or residential address.
- V. **Sources of Information:** List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.

Part 8 Operator Information

- *I. **Identification:** Refer to Part 1-I.
- II. **Current Operator—Operator's Parent Company:** Information on operators is applicable when the operator is not the owner.
- II-01 Name: Enter the legal name of the operator. The operator may be a firm, government agency, association, individual, etc.
- II-02 D&B Number: Enter the operator's Dun and Bradstreet number if available. If the operator is a federal agency, enter the GSA identification code if available.

- II-03 Street Address: Enter the operator's business, mailing, or residential street address.
- II-04 SIC Code: If applicable, enter the operator's primary SIC Code.
- II-05 City: Enter the city of the operator's business, mailing, or residential address.
- II-06 State: Enter the two character alpha FIPS code for the state of the operator's business, mailing, or residential address.
- II-07 Zip Code: Enter the zip code of the operator's business, mailing, or residential address.
- II-08 Years of Operation: Enter the beginning and ending years (or beginning only if operations are on-going), e.g., 1932/1948, of operation at the site.
- II-09 Name of Owner: Enter the name of the owner for the period cited for this operator.
- II-10 Name: If applicable, enter the legal name of the operator's parent company.
- II-11 D&B Number: Enter the operator's parent company Dun and Bradstreet number if available.
- II-12 Street Address: Enter the operator's parent company business, mailing, or residential street address.
- II-13 SIC Code: If applicable, enter the operator's parent company primary SIC Code.
- II-14 City: Enter the city of the operator's parent company business, mailing, or residential address.
- II-15 State: Enter the two character alpha FIPS code for the state of the operator's parent company business, mailing, or residential address.
- II-16 Zip Code: Enter the zip code of the operator's parent company business, mailing, or residential address.
- III. **Previous Operator(s)—Previous Operators' Parent Companies**
- III-01 Name: Enter the legal name of the previous operator. The previous operator may be a firm, government agency, association, individual, etc.
- III-02 D&B Number: Enter the previous operator's Dun and Bradstreet number if available. If the previous operator was a federal agency, enter the GSA identification code if available.
- III-03 Street Address: Enter the previous operator's business, mailing, or residential street address.
- III-04 SIC Code: If applicable, enter the previous operator's primary SIC Code.
- III-05 City: Enter the city of the previous operator's business, mailing, or residential address.
- III-06 State: Enter the two character alpha FIPS code for the state of the previous operator's business, mailing, or residential address.
- III-07 Zip Code: Enter the zip code of the previous operator's business, mailing, or residential address.
- III-08 Years of Operation: Enter the beginning and ending years of operation for this operator at the site.
- III-09 Name of Owner: Enter the name of the owner for the period cited for this operator.

- III-10 Name: If applicable, enter the legal name of the previous operator's parent company.
- III-11 D&B Number: Enter the previous operator's parent company Dun and Bradstreet number if available.
- III-12 Street Address: Enter the previous operator's parent company business, mailing, or residential street address.
- III-13 SIC Code: If applicable, enter the previous operator's parent company primary SIC Code.
- III-14 City: Enter the city of the previous operator's parent company business, mailing, or residential address.
- III-15 State: Enter the two character alpha FIPS code for the state of the previous operator's parent company business, mailing, or residential address.
- III-16 Zip Code: Enter the zip code of the previous operator's parent company business, mailing, or residential address.
- IV. Sources of Information: List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.

Part 9 Generator/Transporter Information

- *I. Identification: Refer to Part 1-I.
- II. On-Site Generator: A company or agency, located within the contiguous area of the site and generating waste disposed on the site, is entered here.
 - II-01 Name: If there is an on-site generator, enter the legal name of the on-site generator. The on-site generator may be a firm or government agency.
 - II-02 D&B Number: Where available, enter the on-site generator's D&B (Dun and Bradstreet) number. If the on-site generator is a federal agency, enter the GSA identification code.
 - II-03 Street Address: Enter the business or mailing street address of the on-site generator.
 - II-04 SIC Code: If applicable, enter the on-site generator's primary SIC Code.
 - II-05 City: Enter the city of the on-site generator's business or mailing address.
 - II-06 State: Enter the two character alpha FIPS code for the state of the on-site generator's business or mailing address.
 - II-07 Zip Code: Enter the five digit zip code for the on-site generator's business or mailing address.
- III. Off-Site Generator(s): Those companies or agencies off-site who have generated waste which has been disposed at the site are listed here.
 - III-01 Name: Enter the legal name of the off-site generator. The off-site generator may be a firm or government agency.
 - III-02 D&B Number: Where available, enter the off-site generator's D&B (Dun and Bradstreet) number. If the off-site generator is a federal agency, enter the GSA identification code.

- III-03 Street Address: Enter the business or mailing street address of the off-site generator.
- III-04 SIC Code: If applicable, enter the off-site generator's primary SIC Code.
- III-05 City: Enter the city of the off-site generator's business or mailing address.
- III-06 State: Enter the two character alpha FIPS code for the state of the off-site generator's business or mailing address.
- III-07 Zip Code: Enter the five digit zip code for the off-site generator's business or mailing address.

- IV. Transporter(s): Those carriers who are known to have transported waste to the site are listed here.
 - IV-01 Name: Enter the legal name of the transporter. The transporter may be a firm, government agency, association, individual, etc.
 - IV-02 D&B Number: Where available, enter the transporter's D&B (Dun and Bradstreet) number. If the transporter is a federal agency, enter the GSA identification code.
 - IV-03 Street Address: Enter the business, mailing, or residential street address of the transporter.
 - IV-04 SIC Code: If applicable, enter the transporter's primary SIC Code.
 - IV-05 City: Enter the city of the transporter's business, mailing, or residential address.
 - IV-06 State: Enter the two character alpha FIPS code for the state of the transporter's business, mailing, or residential address.
 - IV-07 Zip Code: Enter the five digit zip code for the transporter's business, mailing, or residential address.

- V. Sources of Information: List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.

Part 10 Past Response Activities

- *I. Identification: Refer to Part 1-I.
- II. Past Response Activities
 - II-01 Past Response Activities: Check the appropriate box(es) to indicate response activities initiated prior to the passage of CERCLA, December, 1980.
 - II-02 Date: Enter the start date (or approximate date) of the activity.
 - II-03 Agency: Enter the name of the Agency responsible for the activity.
 - II-04 Description: Provide a brief narrative description of the activity.
- III. Sources of Information: List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.

SITE INSPECTION REPORT

Part 11 Enforcement Information

*I. Identification: Refer to Part 1-I.

II. Enforcement Information

II-01 Past Regulatory/Enforcement Action: Check the appropriate box to indicate past regulatory or enforcement action at the federal, state, or local level related to this site.

II-02 Description of Federal, State, Local Regulatory or Enforcement Action: Provide a narrative description

of regulatory or enforcement action to date. Do not include any enforcement action contemplated in the process of development.

III.

Sources of Information: List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.

APPENDIX

I. FEEDSTOCKS

CAS Number	Chemical Name	CAS Number	Chemical Name	CAS Number	Chemical Name
1. 7664-41-7	Ammonia	14. 1317-38-0	Cupric Oxide	27. 7778-50-9	Potassium Dichromate
2. 7440-36-0	Antimony	15. 7758-98-7	Cupric Sulfate	28. 1310-58-3	Potassium Hydroxide
3. 1309-64-4	Antimony Trioxide	16. 1317-39-1	Cuprous Oxide	29. 115-07-1	Propylene
4. 7440-38-2	Arsenic	17. 74-85-1	Ethylene	30. 10588-01-9	Sodium Dichromate
5. 1327-53-3	Arsenic Trioxide	18. 7647-01-0	Hydrochloric Acid	31. 1310-73-2	Sodium Hydroxide
6. 21109-85-5	Barium Sulfide	19. 7664-39-3	Hydrogen Fluoride	32. 7646-78-8	Stannic Chloride
7. 7726-95-6	Bromine	20. 1335-25-7	Lead Oxide	33. 7772-99-8	Stannous Chloride
8. 106-99-0	Butadiene	21. 7439-97-6	Mercury	34. 7664-83-9	Sulfuric Acid
9. 7440-43-9	Cadmium	22. 74-82-8	Methane	35. 108-88-3	Toluene
10. 7782-50-5	Chlorine	23. 91-20-3	Naphthalene	36. 1330-20-7	Xylene
11. 12737-27-8	Chromite	24. 7440-02-0	Nickel	37. 7646-85-7	Zinc Chloride
12. 7440-47-3	Chromium	25. 7697-37-2	Nitric Acid	38. 7733-02-0	Zinc Sulfate
13. 7440-48-4	Cobalt	26. 7723-14-0	Phosphorus		

II. HAZARDOUS SUBSTANCES

CAS Number	Chemical Name	CAS Number	Chemical Name	CAS Number	Chemical Name
1. 75-07-0	Acetaldehyde	47. 1303-33-9	Arsenic Trisulfide	92. 142-71-2	Cupric Acetate
2. 64-19-7	Acetic Acid	48. 642-62-1	Barium Cyanide	93. 12002-03-8	Cupric Acetoarsenite
3. 108-24-7	Acetic Anhydride	49. 71-43-2	Benzene	94. 7447-39-4	Cupric Chloride
4. 75-86-5	Acetone Cyanohydrin	50. 65-85-0	Benzoic Acid	95. 3251-23-8	Cupric Nitrate
5. 506-96-7	Acetyl Bromide	51. 100-47-0	Benzonitrile	96. 5893-66-3	Cupric Oxalate
6. 75-36-5	Acetyl Chloride	52. 98-88-4	Benzoyl Chloride	97. 7758-98-7	Cupric Sulfate
7. 107-02-8	Acrolein	53. 100-44-7	Benzyl Chloride	98. 10380-29-7	Cupric Sulfate Ammoniated
8. 107-13-1	Acrylonitrile	54. 7440-41-7	Beryllium	99. 815-82-7	Cupric Tartrate
9. 124-04-9	Adipic Acid	55. 7787-47-5	Beryllium Chloride	100. 506-77-4	Cyanogen Chloride
10. 309-00-2	Aldrin	56. 7787-49-7	Beryllium Fluoride	101. 110-82-7	Cyclohexane
11. 10043-01-3	Aluminum Sulfate	57. 13597-99-4	Beryllium Nitrate	102. 94-75-7	2,4-D Acid
12. 107-18-6	Allyl Alcohol	58. 123-86-4	Butyl Acetate	103. 94-11-1	2,4-D Esters
13. 107-05-1	Allyl Chloride	59. 84-74-2	n-Butyl Phthalate	104. 50-29-3	DDT
14. 7664-41-7	Ammonia	60. 109-73-9	Butylamine	105. 333-41-5	Diazinon
15. 631-61-8	Ammonium Acetate	61. 107-92-6	Butyric Acid	106. 1918-00-9	Dicamba
16. 1863-83-4	Ammonium Benzoate	62. 543-80-8	Cadmium Acetate	107. 1194-65-6	Dichlobenil
17. 1066-33-7	Ammonium Bicarbonate	63. 7789-42-6	Cadmium Bromide	108. 117-80-6	Dichlone
18. 7789-09-5	Ammonium Bichromate	64. 10108-64-2	Cadmium Chloride	109. 25321-22-6	Dichlorobenzene (all isomers)
19. 1341-49-7	Ammonium Bifluoride	65. 7778-44-1	Calcium Arsenate	110. 266-38-19-7	Dichloropropene (all isomers)
20. 10192-30-0	Ammonium Bisulfite	66. 52740-16-6	Calcium Arsenite	111. 26952-23-8	Dichloropropene (all isomers)
21. 1111-78-0	Ammonium Carbamate	67. 75-20-7	Calcium Carbide	112. 8003-19-8	Dichloropropene-Dichloropropene Mixture
22. 12125-02-9	Ammonium Chloride	68. 13785-19-0	Calcium Chromate		
23. 7788-98-9	Ammonium Chromate	69. 592-01-8	Calcium Cyanide	113. 75-99-0	2,2-Dichloropropionic Acid
24. 3012-65-5	Ammonium Citrate, Dibasic	70. 26284-06-2	Calcium Dodecylbenzene Sulfonate	114. 62-73-7	Dichlorvos
25. 13826-83-0	Ammonium Fluoborate			115. 60-57-1	Dieldrin
26. 12125-01-8	Ammonium Fluoride	71. 7778-64-3	Calcium Hypochlorite	116. 109-89-7	Diethylamine
27. 1336-21-6	Ammonium Hydroxide	72. 133-08-2	Captan	117. 124-40-3	Dimethylamine
28. 6009-70-7	Ammonium Oxalate	73. 63-25-2	Carbaryl	118. 25154-64-6	Dinitrobenzene (all isomers)
29. 16919-19-0	Ammonium Silicofluoride	74. 1563-66-2	Carbofuran	119. 51-28-5	Dinitrophenol
30. 7773-06-0	Ammonium Sulfamate	75. 75-15-0	Carbon Disulfide	120. 25321-14-8	Dinitrotoluene (all isomers)
31. 12135-76-1	Ammonium Sulfide	76. 56-23-6	Carbon Tetrachloride	121. 85-00-7	Diquat
32. 10196-04-0	Ammonium Sulfite	77. 57-74-9	Chlordane	122. 298-04-4	Disulfoton
33. 14307-43-8	Ammonium Tartrate	78. 7782-50-5	Chlorine	123. 330-54-1	Diuron
34. 1782-95-4	Ammonium Thiocyanate	79. 108-90-7	Chlorobenzene	124. 27178-87-0	Dodecylbenzenesulfonic Acid
35. 7783-18-8	Ammonium Thiosulfate	80. 67-66-3	Chloroform	125. 115-29-7	Endosulfan (all isomers)
36. 628-63-7	Amyl Acetate	81. 7790-64-5	Chlorosulfonic Acid	126. 72-20-8	Endrin and Metabolites
37. 62-53-3	Aniline	82. 2921-88-2	Chlorpyrifos	127. 106-89-8	Epichlorohydrin
38. 7647-18-9	Antimony Pentachloride	83. 1086-30-4	Chromic Acetate	128. 563-12-2	Ethion
39. 7789-61-9	Antimony Tribromide	84. 7738-94-5	Chromic Acid	129. 100-41-4	Ethyl Benzene
40. 10025-91-9	Antimony Trichloride	85. 10101-63-8	Chromic Sulfate	130. 107-15-3	Ethylenediamine
41. 7783-56-4	Antimony Trifluoride	86. 10049-06-5	Chromous Chloride	131. 108-93-4	Ethylene Dibromide
42. 1309-64-4	Antimony Trioxide	87. 544-18-3	Cobaltous Formate	132. 107-06-2	Ethylene Dichloride
43. 1303-32-8	Arsenic Disulfide	88. 14017-41-5	Cobaltous Sulfamate	133. 60-00-4	EDTA
44. 1303-28-2	Arsenic Pentoxide	89. 56-72-4	Coumaphos	134. 1185-57-5	Ferric Ammonium Citrate
45. 7784-34-1	Arsenic Trichloride	90. 1319-77-3	Cresol	135. 2944-67-4	Ferric Ammonium Oxalate
46. 1327-53-3	Arsenic Trioxide	91. 4170-30-3	Crotonaldehyde	136. 7708-08-0	Ferric Chloride

MONSANTO TEXTILES COMPANY
SCD 001 700 863
NPDES PERMIT #SC 0039802-001

A. HISTORY OF THE SITE

This site is located approximately 2.0 miles Northeast of Blacksburg, South Carolina in Cherokee County at the coordinates 35 degrees, 8 minutes, 57.7 seconds North latitude and 81 degrees, 29 minutes, 3.9 seconds West longitude. This site began operation in 1968 and was properly closed out in 1982. The ownership history of this facility can be described as follows:

1. 1961-1968. Facility was known as Blacksburg Textile Chemstrand (B.T.C.).
2. 1968-1982. The name B.T.C. was changed to Monsanto Textiles Company. It was during this period when the landfill trenches were in operation for accepting inert and cellulosic wastes from the Monsanto repackaging process. Monsanto was a non-manufacturing customer service facility engaged in the repackaging of synthetic fibers (warping and beaming) and the receipt, warehousing, and shipping of such fibers in cartons, bales, spools, and beams. The landfill site at the rear of the Monsanto building consisted of several (between 5 and 8; see attached plans) pits dug by bulldozers to dimensions of 150 feet long, 19 feet wide, and 15 feet deep. Monsanto went out of business at this facility in 1982 at which time the burial trenches were properly closed out. Closeout inspection was conducted by Bill Buffington (Appalachia III, Solid and Hazardous Waste District Consultant). This site was part of the Eckhardt Study.
3. 1982-1985. This facility remained vacant and dormant during this period of time.
4. 1985-Present. Export Leaf Tobacco Company (a subsidiary of Brown and Williamson Tobacco Company) is operating at this facility at present time. The operation at Export Leaf involves warehouse storage, receiving, and shipping of boxes and barrels of tobacco. They are not using the trenches for landfilling their trash and domestic solid waste. The landfill remains closed out and is covered with vegetation. Any domestic, inert, or cellulosic waste produced by Export Leaf is carried away by Davis Disposal Service.

B. NATURE OF HAZARDOUS MATERIALS

This site was permitted by SCDHEC on February 4, 1981 to receive only cellulosic and inert solid waste to include paper, corrugated paper, cardboard, wood, canteen waste, metal scraps, and metal baling bands. Monsanto was a non-manufacturing customer service facility engaged in the repackaging of synthetic fibers (warping and beaming) and the receipt, warehousing, and shipping of such fibers in cartons, bales, spools, and beams. As a result, Monsanto did not have a hazardous waste disposal problem.

The only possible source of hazardous waste would be the waste hydraulic fluids, waste lubricating oils, and waste degreasing agents (if any) used in the repackaging machines in the realm of normal operating maintenance.

Midnight dumping (unauthorized dumping) probably is not a possibility because the site is bordered by a 260 foot forest-covered mountain to the South and thickly wooded areas to the East and West. The only access to the site is one road through Monsanto property which enters the site area from the North. This road has limited access in that it is equipped with a locked gate fence. Also, Monsanto had security personnel patrolling the grounds.

The writer doubts hazardous waste is buried in the Monsanto site. If hazardous waste is present, and considering the high security measures Monsanto employed, one can only conclude that Monsanto could be the only ones who disposed hazardous waste here. This is merely describing an exaggerated "what if" scenario without any documented proof that Monsanto dumped hazardous waste into this site.

Monsanto had a domestic wastewater treatment lagoon installed because soil porosity was poor in this area and could not accommodate a septic tank. The lagoon has an NPDES permit #SC 0039802-001 and, when needed, it discharges to the headwaters of an unnamed tributary stream which discharges into Bee Branch. Monsanto used a washing machine to wash a special type of aluminum spool before each time it was used because this spool could not be touched with human hands. Besides domestic waste material from the restrooms, the lagoon may contain low levels of surfactants from this small washing operation.

C. DESCRIPTION OF HAZARDOUS CONDITIONS, INCIDENTS, PERMIT VIOLATIONS

Monsanto had two underground #5 fuel oil storage tanks which were excavated and pulled out of the ground 18 months ago. One tank had a storage capacity of 15,000 gallons and the other tank had a storage capacity of 10,000 gallons. On December 13, 1971, a faulty pressure gauge on one of these tanks began to leak oil. An oil spill resulted which entered a series of storm drain pipes on Monsanto property and, eventually, discharged to the headwaters of Bee Branch. The spill was promptly contained, controlled, and cleaned up by Monsanto.

Monsanto had an SCDHEC permit #IWP-179 which limited waste to inert and cellulosic solid waste for disposal into their landfill. If hazardous waste was disposed in this landfill by Monsanto, then they severely violated their SCDHEC permit, however, chances that this had happened are remote.

D. ROUTES FOR CONTAMINATION

Currently, the Town of Blacksburg, South Carolina is master-metering water from the Town of Gaffney, South Carolina which is located 9.0 miles to the Southwest. Blacksburg's drinking water intake and treatment plant, located on Buffalo Creek, has been shut down for modernization and modification. Raw water is taken from Buffalo Creek which is just outside the western edge of the 3.0 mile radius. The Monsanto landfill is located 500 feet away from the headwaters of an unnamed tributary stream to Bee Branch. The confluence of Bee Branch and Buffalo Creek is located 2.9 stream miles downstream from the site. The raw water intake for Blacksburg, South Carolina is located 1.9 miles downstream from the confluence of Bee Branch and Buffalo Creek. Blacksburg's population is 1,873 all of which utilize public surface water for drinking.

Most of the other 3,253 people within the 3.0 mile radius utilize individual well water supplies (in the rural areas) or community well water supplies such as Grover, North Carolina.

The Town of Grover, North Carolina gets drinking water from five (5) wells which range in depth from 240 to 363 feet deep.

Monsanto has three wells dug. Wells #1 and #2 are 280 feet deep. They supplied sprinkler water for the large lawn on the Monsanto grounds. These two wells are not connected to the Monsanto drinking water pipe distribution system. Well #3 is located in front of the Monsanto building near I-85. Well #3 is the closest well and is located approximately 2,100 feet away from the site. This well supplies drinking water to Monsanto.

A test well (8 feet deep) was dug in the woods behind the site with a hand auger by a Monsanto official. Allegedly, a groundwater sample was taken which was analyzed. Results allegedly revealed undetectable contaminants.

E. POSSIBLE AFFECTED POPULATION AND RESOURCES

The two largest towns within the three mile radius of the Monsanto site are Grover, North Carolina (pop. 597) which utilizes groundwater and Blacksburg, South Carolina (pop. 1,873) which utilizes surface waters. The other 2,656 people who reside within the 3.0 mile radius live in very rural areas and it is believed that they are on private wells.

It is unknown if any wildlife sanctuaries exist within the 3.0 mile radius.

F. RECOMMENDATIONS AND JUSTIFICATIONS

The writer believes that the chances for hazardous waste to be present in this landfill are remote. However, there is always the possibility that some waste lubricating oil, waste hydraulic fluid, and waste degreasing agents have been disposed of at this site. I am recommending that a low priority for a site inspection be labeled on this preliminary assessment. Perhaps a mini-groundwater study can be initiated in the future on a time available basis.

G. REFERENCE TO SUPPORTING DATA SOURCES

The information to compile this Preliminary Assessment was obtained from the following sources:

1. SCDHEC Central Office files.
2. SCDHEC District Office files.
3. Topographic quadrangle maps.
4. Telephone conversations with Bill Buffington SCDHEC, Appalachia III District Solid & Hazardous Waste District Consultant.
5. Ernest Dixon (803/839-2717). Assistant Manager at Export Leaf and former Employee of Monsanto Textiles Company.
6. Reed Love (803/839-2332). Blacksburg, S. C., Town Manager.
7. Dick Robison (803/487-7171). Gaffney, S. C., Board of Public Works.
8. Janet Patterson (704/937-9986). Grover, N.C., Town Clerk.
9. NPDES Permit #SC 0039802-001 for Monsanto/Export Leaf.
10. September 1983 South Carolina State Water Assessment Plan.

H. MISCELLANEOUS

Special Note to USEPA, Region IV Reviewer:

Please be advised that Monsanto Textiles Company (SCD 001 700 863) Cherokee County and Backfield Dump Site (SCD 981 003 445) Cherokee County are two names for the exact same site. Your office may want to delete Backfield Dump Site (SCD 981 003 445) Cherokee County from CERCLIS. Thank you.



**POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT**

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
SC	D001700863

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site) Monsanto Textiles Co./Export Leaf Tobacco Co.		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER Located in the Southwest corner of the intersection of I-85 & Sec. Road 99.			
03 CITY Blacksburg	04 STATE SC	05 ZIP CODE 29702	06 COUNTY Cherokee	07 COUNTY CODE 21	08 CONG DIST 05
09 COORDINATES LATITUDE 3 50° 08' 57.71" N LONGITUDE 08 10° 29' 03.9" W					
10 DIRECTIONS TO SITE (Starting from nearest public road) From the intersection of SC 29 and SR 100/SR 148 in the center of Blacksburg, S.C. proceed N. on SC 29 for 3.0 miles. At the intersection of SC 29 and SR 99, take a left onto SR 99 and proceed for 1.35 mi. The site is located to the left side of SR99 approx. 5,000 ft. to the West behind the Export Leaf Tobacco Co. (Formerly					

III. RESPONSIBLE PARTIES

01 OWNER (if known) Monsanto Textiles Co.		02 STREET (Business, mailing, residential) 800 North Lindbergh Boulevard	
03 CITY St. Louis	04 STATE MO	05 ZIP CODE 63167	06 TELEPHONE NUMBER 314 694-1000
07 OPERATOR (if known and different from owner) Monsanto Textiles Company		08 STREET (Business, mailing, residential) P. O. Box 165	
09 CITY Blacksburg	10 STATE SC	11 ZIP CODE 29702	12 TELEPHONE NUMBER (803) 839-2717
13 TYPE OF OWNERSHIP (Check one) <input checked="" type="checkbox"/> A. PRIVATE <input type="checkbox"/> B. FEDERAL: _____ (Agency name) <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input type="checkbox"/> E. MUNICIPAL <input type="checkbox"/> F. OTHER: _____ (Specify) <input type="checkbox"/> G. UNKNOWN			

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)

☐ A. RCRA 3001 DATE RECEIVED: ____/____/____ MONTH DAY YEAR ☐ B. UNCONTROLLED WASTE SITE (RCRA 103) DATE RECEIVED: ____/____/____ MONTH DAY YEAR ☒ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION <input checked="" type="checkbox"/> YES DATE <u>Routinely</u> MONTH DAY YEAR <input type="checkbox"/> NO by <u>Buffington</u>		BY (Check all that apply) <input type="checkbox"/> A. EPA <input type="checkbox"/> B. EPA CONTRACTOR <input checked="" type="checkbox"/> C. STATE <input type="checkbox"/> D. OTHER CONTRACTOR <input type="checkbox"/> E. LOCAL HEALTH OFFICIAL <input type="checkbox"/> F. OTHER: _____ (Specify)	
02 SITE STATUS (Check one) <input type="checkbox"/> A. ACTIVE <input checked="" type="checkbox"/> B. INACTIVE <input type="checkbox"/> C. UNKNOWN		03 YEARS OF OPERATION <u>1968</u> <u>1982</u> BEGINNING YEAR ENDING YEAR <input type="checkbox"/> UNKNOWN	

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED
 Waste disposed in the burial pits were limited to inert and cellulosic plant waste to include paper, corrugated paper, bobbins, cardboard, wood, canteen waste, metal scraps, and metal bailing bands.

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION
 Perhaps small amounts of waste degreasing agents, waste lubricating oils, and hydraulic oils were generated from the machinery and dumped into these pits. However, documentation to substantiate this does not exist.

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Activities)
☐ A. HIGH (Inspection required promptly) ☐ B. MEDIUM (Inspection required) ☒ C. LOW (Inspect on time available basis) ☐ D. NONE (No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT John Cresswell	02 OF (Agency/Organization) SCDHEC - EQC - BSHWM	03 TELEPHONE NUMBER (803) 734-5200
04 PERSON RESPONSIBLE FOR ASSESSMENT Thomas J. Dziekan	05 AGENCY SCDHEC	06 ORGANIZATION EQC - BSHWM
	07 TELEPHONE NUMBER (803) 734-5200	08 DATE 8 / 7 / 87 MONTH DAY YEAR



**POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT**

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
SC	D001700863

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 <input checked="" type="checkbox"/> A. GROUNDWATER CONTAMINATION	02 <input type="checkbox"/> OBSERVED (DATE: _____)	<input checked="" type="checkbox"/> POTENTIAL	<input type="checkbox"/> ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____	04 NARRATIVE DESCRIPTION		

Possible, but highly improbable that hazardous waste has been disposed here.

01 <input checked="" type="checkbox"/> B. SURFACE WATER CONTAMINATION	02 <input type="checkbox"/> OBSERVED (DATE: _____)	<input checked="" type="checkbox"/> POTENTIAL	<input type="checkbox"/> ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____	04 NARRATIVE DESCRIPTION		

Possible that a 2.8 acre pond near the site could be impacted by hazardous waste if it is present. The presence of hazardous waste in this landfill is very remote.

01 <input type="checkbox"/> C. CONTAMINATION OF AIR	02 <input type="checkbox"/> OBSERVED (DATE: _____)	<input type="checkbox"/> POTENTIAL	<input type="checkbox"/> ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____	04 NARRATIVE DESCRIPTION		

Unknown at this time.

01 <input type="checkbox"/> D. FIRE/EXPLOSIVE CONDITIONS	02 <input type="checkbox"/> OBSERVED (DATE: _____)	<input type="checkbox"/> POTENTIAL	<input type="checkbox"/> ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____	04 NARRATIVE DESCRIPTION		

Unknown at this time.

01 <input type="checkbox"/> E. DIRECT CONTACT	02 <input type="checkbox"/> OBSERVED (DATE: _____)	<input type="checkbox"/> POTENTIAL	<input type="checkbox"/> ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____	04 NARRATIVE DESCRIPTION		

Unknown at this time.

01 <input checked="" type="checkbox"/> F. CONTAMINATION OF SOIL	02 <input type="checkbox"/> OBSERVED (DATE: _____)	<input checked="" type="checkbox"/> POTENTIAL	<input type="checkbox"/> ALLEGED
03 AREA POTENTIALLY AFFECTED: _____ (Acres)	04 NARRATIVE DESCRIPTION		

This is a possibility only if hazardous waste is present, however, probably not a problem in this situation.

01 <input checked="" type="checkbox"/> G. DRINKING WATER CONTAMINATION	02 <input type="checkbox"/> OBSERVED (DATE: _____)	<input checked="" type="checkbox"/> POTENTIAL	<input type="checkbox"/> ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____	04 NARRATIVE DESCRIPTION		

If hazardous waste is present, groundwater and drinking water wells could become contaminated. An unnamed tributary stream to Bee Branch is located 500 feet away from the site. Bee Branch discharges into Buffalo Creek 1.9 miles upstream from the Blacksburg, S.C. raw water intake.

01 <input type="checkbox"/> H. WORKER EXPOSURE/INJURY	02 <input type="checkbox"/> OBSERVED (DATE: _____)	<input type="checkbox"/> POTENTIAL	<input type="checkbox"/> ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____	04 NARRATIVE DESCRIPTION		

Unknown at this time.

01 <input type="checkbox"/> I. POPULATION EXPOSURE/INJURY	02 <input type="checkbox"/> OBSERVED (DATE: _____)	<input type="checkbox"/> POTENTIAL	<input type="checkbox"/> ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____	04 NARRATIVE DESCRIPTION		

Unknown at this time. File documents do not support this possibility.

RCRA SUMMARY
Monsanto Textiles Company
SCD 001 700 863

Monsanto Textiles Company applied for an SCDEEC Solid Waste permit to construct and operate a solid waste management system (landfill) for inert, cellulosic, and trash waste on September 2, 1980. This landfill would be located in the rear of the Monsanto building consisting of several (between 5 and 8) pits which were to be 150 feet long, 19 feet wide, and 15 feet deep. Permit #IWP-179 was issued by SCDEEC to Monsanto Textiles Co. on February 4, 1981. The permit limited waste streams to inert and cellulosic plant waste to specifically include paper, corrugated paper, cardboard, wood, canteen waste, metal scraps, and metal bailing bands.

A RCRA permit was not issued because one was not needed. Monsanto Textiles Company operated at this locale as a textile repackaging plant from 1968 to 1982. Nothing was manufactured at this location. This was a non-manufacturing customer service facility engaged in the repackaging of synthetic fibers (warping and beaming) and the receipt, warehousing, and shipping of such fibers in cartons, bales, spools, and beams. Therefore, disposal of hazardous waste was not a problem because none existed.

Stretching thin the dimensions of the imagination, perhaps small amounts of waste degreasing agents, waste lubricating oils, and waste hydraulic oils were generated from the machinery and dumped into these pits by a layman employee. However, this cannot be substantiated by any sort of documentation.

Site Name: Monsanto Textiles Company / Export Leaf Tobacco Company

EPA ID #: SCD 001 700 863

Ground Water Score: - Assuming worst possible case potential for degreaser, hydraulic fluid, and lubricating oil waste to be disposed here in the past.

$$[DGW (2) + 7] [3] [T/P + WQGW] [9 + D/P] [100]$$

$$36.687598 = S(gw) =$$

57,330

1 = DGW = "Depth to Aquifer of Concern" Score
18 = T/P = "Toxicity / Persistence" Score
1 = WQGW = "Waste Quantity Score" (Use "1" if NO Quantity is known)
32 = D/P = "Distance to Nearest Well / Population" Score
 In the event machine waste oil has been dumped into this landfill, some heavy metal waste may be present. (Assuming the worst possible case)
 Amount of hazardous waste buried at this site is unknown and probably does not exist.
 Monsanto's (Export Leaf Tobacco Company) well is located 2,100 ft away. Population utilizing groundwater within the 3.0 mile radius is 2,748.

Surface Water Score: Assuming worst possible case potential for degreaser, hydraulic fluid, and lubricating oil waste to be disposed here in the past.

$$[DSW (2) + 7] [3] [T/P + WQSW] [9 + P/D] [100]$$

$$8.7692307 = S(sw) =$$

64,350

2 = DSW = Distance to Nearest "Downhill" Surface Water Score
18 = T/P = "Toxicity / Persistence" Score
1 = WQSW = "Waste Quantity Score" (Use "1" if NO Quantity is known)
0 = P/D = "Population / Stream Distance to Intake" Score
 A 2.9 acre pond with a stream outfall is the nearest downhill surface water.
 In the event machine waste oil has been dumped into this landfill, some heavy metal waste may be present. (Assuming the worst possible case)
 Amount of hazardous waste buried at this site is unknown and may not exist.
 The Town of Blacksburg, S.C. utilizes surface water from Buffalo Creek.

DRAFT HRS SCORE *

$$[S(gw)^2 + S(sw)^2 + S(a)^2]^{.5}$$

$$21.804087 = S(m) =$$

1.73

*Note comments on factors used and add S(a) for Air Route when necessary.

$$S(m) = 21.8$$

Mounts Textile Company
 SCD 001 700 863

$$S(gw) = 36.687598$$

$$S(gw) = \frac{57330}{2103300}$$

$$S(gw) = \frac{57330}{(513)(4100)}$$

$$S(gw) = \frac{57330}{(27)(19)(4100)}$$

$$S(gw) = \frac{57330}{(9)(3)(19)(41)(100)}$$

$$S(gw) = \frac{57330}{(2+7)(3)(18+1)(9+32)(100)}$$

$$S(gw) = \frac{57330}{[1(2)+7][3][18+1][9+32][100]}$$

$$I) S(gw) = \frac{57330}{[106w(2)+7][3][17p+106w][9+1/p][100]}$$

I. Facility Slope

$$\% \text{ slope} = \frac{\text{Elevation (high)} - \text{Elevation (low)}}{\text{Pathway Distance}} \times 100$$

$$\% \text{ slope} = \frac{850 - 830}{280 \text{ feet}} \times 100$$

$$\% \text{ slope} = \frac{20}{280} \times 100$$

$$\% \text{ slope} = 0.0714285 \times 100$$

$$\% \text{ slope} = 7.14285 = \boxed{7.14\%}$$

II. Downslope to Nearest Surface Water

$$\% \text{ slope} = \frac{\text{Elevation (high)} - \text{Elevation (low)}}{\text{Distance from closest edge of the site to the nearest surface water}} \times 100$$

$$\% \text{ slope} = \frac{830 - 810}{500} \times 100$$

$$\% \text{ slope} = \frac{20}{500} \times 100$$

$$\% \text{ slope} = 0.04 \times 100$$

$$\% \text{ slope} = \boxed{4.00\%}$$

L30150CM

NPDES PERMIT CONDITIONS

02/28/85

SC0059802-001 BROWN & WILLIAMSON TOBACCO CO CHEROKEE CO
BASIN/SUBBASIN/SEG C DISTRICT 06 LAB 4221 SIC CODE M

EFFECTIVE DATE (850401)

PARAMETER	QUAN DA	QUAN AVG	QUAN DA	QUAN MAX	QUAN IN	QUAN MAX	UNITS	CONC DA	CONC AVG	CONC DA	CONC MAX	CONC IN	CONC MAX	UNITS	FREQ	ST
FLUR										.0015				HGD	1/1	IN
PH							6					9		SU	1/30	GR
BOD							#/DAY 30		60					MG/L	1/30	GR
FECAL COLI							200		400					#/100	1/30	GR
TSS							#/DAY 90		135					MG/L	1/30	GR

South Carolina Pollution Control Authority

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EXECUTIVE DIRECTOR

OWEN BUILDING
1321 LADY STREET P. O. BOX 11626
Columbia, South Carolina 29211

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BOB HICKMAN COLUMBIA
LEWIS E. HENDRICKS COLUMBIA
J. BONNER MANLY COLUMBIA

AREA CODE 803
TELEPHONE: 756-2918

December 8, 1971

Mr. Jack Lowery
Superintendent,
Personnel & Services
Monsanto Company
P. O. Box 165
Blacksburg, S. C. 29702

Dear Mr. Lowery:

Mr. J. W. Smith has asked me to reply to your letter of November 22, 1971 requesting a permit to continue open burning of the waste you described.

Regulation 2A (copy enclosed) specifically prohibits this practice of open burning, and I cannot recommend to the Director that such permission be granted. Section I, Paragraph J-1 does provide for highly restricted permits when unusual circumstances warrant it. Such permission is the exception rather than the rule, however, and I recommend that you seek alternate methods of disposal.

I am not expert in land-fill technology, I must admit, but we might be of help if incineration is considered. In the latter case, I remind you that incinerators must receive a permit to construct and operate, in accordance with Standard No. 4A, also enclosed.

Please contact me if I can be of any assistance.

Very truly yours,

W. G. Crosby, Chief
Division of Air Pollution Control

WGC:jpg

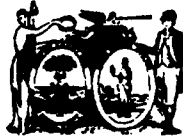
Enclosure

CC: J. W. Smith

South Carolina Pollution Control Authority

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CHAIRMAN
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HUBERT J. WEBB, PH.D.
EXECUTIVE DIRECTOR

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1321 LADY STREET P. O. BOX 11628
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CLAIR P. GUESS, JR. COLUMBIA
BOB HICKMAN COLUMBIA
LEWIS E. HENDRICKS COLUMBIA
J. BONNER MANLY COLUMBIA

AREA CODE 803
TELEPHONE: 788-2815

December 22, 1971

MEMORANDUM TO FILES

FROM: Noel M. Hurley, Chief *NH*
Monitoring Branch *BC*
W. Bowman Crum, Jr.
Aquatic Biologist

SUBJECT: Oil Spill at Monsanto, Blacksburg, South Carolina

On the morning of December 13, 1971, Mr. Jack Lowery informed this office by telephone of an oil spill at the Monsanto Plant in Blacksburg, South Carolina. He reported that Number Five oil in excess of 2,000 gallons had leaked from the pressure gauge on a pump. One of the writers (W.B. Crum) went to Blacksburg in the afternoon to investigate.

I arrived at the Monsanto plant at 3:15 p.m. and with Mr. Lowery, Mr. Walter Cavell and others surveyed the problem. The oil had leaked from the pressure gauge on a pump located near a corner of the plant. The oil seeped through the soil below to a storm drain which carried it to a ditch beside the frontage road in front of the plant. It traveled about 100 yards in this ditch and then seeped through the soil in the area of a storm drain which crossed under Highway I-85. Once on the opposite side of I-85, the oil settled in two low areas, one between I-85 and the frontage road and the other at the edge of a wooded area. In this wooded area the oil found its way into the headwaters of a tributary to Buffalo Creek. We followed Buffalo Creek and found some on the surface at County Road 52 and none at S. C. Road 198 (see attached map).

The officials at Monsanto said that the leak had been discovered on Saturday, December 11. They had engaged a septic tank pumping truck to pump out the oil collecting in low areas on the opposite side of I-85. At about 4:00 p.m. they reported that a little over 5,000 gallons of an oil-water mixture had been removed. They had also placed sawdust in the open ditch in front of the plant to absorb remaining oil.

MEMORANDUM

- 2 -

December 22, 1971

FROM: Noel M. Hurley
W. Bowman Crum, Jr.

SUBJECT: Oil Spill at Monsanto, Blacksburg, South Carolina

I informed the officials at Monsanto that some action must be taken to contain the oil which had gotten into the creek and suggested the use of booms constructed across the creek using fence wire and straw or hay on the water surface to soak up the oil. I suggested placing a boom at S. C. Highway 198, one at Road 52, and several in the headwaters of this creek. Plant officials made plans to construct booms and also to get a portable pump and back hoe into the headwater area to dam the most concentrated area and pump out heavily contaminated oil. I left Monsanto at 5:30 p.m. satisfied that company officials were taking steps necessary to contain and then clean up the spilled oil. I assured them that they had met their obligation as far as notifying the proper governmental agency.

On Tuesday, December 13, 1971, Mr. Dennis Powell of the Greenville office went to Monsanto and found that Mr. Crum's recommendations were being carried out. Mr. Jack Lowery of Monsanto called the Columbia office on this date and requested that someone return to the Monsanto, Blacksburg Plant, to meet with Mr. James E. Lipe, Manager, Environment and Ecology, for Monsanto.

I, Noel M. Hurley, met with Mr. Walter E. Cavell, Plant Manager; Mr. Jack Lowery, Mr. Lipe and other Monsanto officials during the afternoon of December 15. Approximately twenty men were working to clean up the spilled oil.

Barricades of straw and hay had been placed at several points and oil had been removed from ditches and holes between the plant and wooded area. The sawdust and oil, along with some dirt, had been removed and hauled to Monsanto property and put in a pit. The area scraped was being covered with straw to prevent erosion and to soak up any oil which might seep from under ground.

Please refer to attached map. The barricade at Point A was retaining all oil above this point and straw was being changed periodically. There was some oil between Points A and B which was being collected at B. A crew started at approximately 3:00 p.m. from Point A to remove trash from the stream and to sweep the oil on down stream to point B for removal. There was only a trace of oil at Point C and none could be detected between Points C and D.

MEMORANDUM

- 3 -

December 22, 1971

FROM: Noel M. Hurley
W. Bowman Crum, Jr.

SUBJECT: Oil Spill at Monsanto, Blacksburg, South Carolina

Mr. Dennis Powell of the Greenville office returned to Monsanto on Monday, December 20, and found men still at work, with the job almost completed.

It appears to me that officials of Monsanto responded to a very difficult situation and are cleaning up the accidental spill satisfactorily.

Talked with Mr. Jack Lowery of Monsanto today and he stated that Monsanto would continue to maintain the barricades for several days or as long as any oil could be removed.

NMH/WBCjr/cld

Attachments

OMB Clearance No. 158-571002

Expiration Date. September 1977

Industrial Waste Survey Form

General Information

RECEIVED

JUL 15 1987

**E. C. DEPT. OF
ENVIRONMENTAL
BUREAU OF SOLID WASTE MANAGEMENT**

7. Generate

Business Name: Monsanto Textiles Company No. of Employees: 110
Business Address: P. O. Box 165 City: Blacksburg zip: 29702
Location: Blacksburg County: Cherokee District:
Facility Manager: Walter E. Cavell Phone: 839-2302
Person Completing Form: Lomax M. Murphy, Jr. Title: Supt., Maint. Spt. Phone: 839-2302
Time Period (which data represents): September 1976 - August 1977
SIC Group Name - (4 digit code); Primary 2282 Secondary Other
Average Daily Water Flow, Incoming (gallons, 7,480 gallons

Give a brief description of manufacturing process: The plant is a non-manufacturing customer service facility engaged in repackaging of synthetic fibers (warping and
beaming) and the receipt, warehousing, and shipping of such fibers in cartons, bales,
rolls, and beams.

Complete fully, one of the attached sheets for each waste stream. (Be sure to include every waste stream.)

Waste Stream: Domestic Sewage

Chemical Composition (Weight Basis): Water and Domestic Sewage

Amount/Time: 1.37 Gallons/Minute Average Flow

Other Information: (Hazards, Flash Point, Toxicity, etc.) None

II. Haulers and/or Collectors Used for Waste

Business Name: N/A Phone: ()

Business Address: City: State:

County: Zip: Permit No.:

Transportation Method:

III. Treatment and/or Disposal Facilities Owned by Generator Used for Waste

Amount/Time: 1.37 Gallons/Minute Average Flow

Methods Used (Be Specific): Oxidation Pond

Permit Nos. (If Applicable): SC0001911

IV. Other Disposal and/or Processing Facilities Used for Disposal of Waste

Business Name: N/A Phone: ()

Business Address: City: State:

County: Zip: Permit No.:

Amount/Time:

Methods Used (Be Specific):

V. Storage Facilities Owned or Used by Generator for Waste

Amount Stored/Time: N/A

Amount Transferred/Time: Destination:

Method of Storage:

Description of Storage Area:

Location:

Future Plans for Stored Waste: None

I. Description

Solid X Liquid _____ Liquid to treatment system _____ Gas _____ Sludge _____ (% Solid) _____

Waste Stream: Plant Refuse

Chemical Composition (Weight Basis): Paper, Corrugated Paper, Canteen waste, Clean-up trash, etc.

Amount/Time: 34 Tons Per Month

Other Information: (Hazards, Flash Point, Toxicity, etc.) _____

II. Haulers and/or Collectors Used for Waste

Business Name: Spartan Waste Control Phone: (803) 585-8127

Business Address: P. O. Box 5349 City: Spartanburg State: S. C.

County: Spartanburg Zip: 29301 Permit No.: Unknown

Transportation Method: Trash Dumpster

III. Treatment and/or Disposal Facilities Owned by Generator Used for Waste

Amount/Time: 12 Tons Per Month

Methods Used (Be Specific): Open Trash Pit

Permit Nos. (If Applicable): N/A

IV. Other Disposal and/or Processing Facilities Used for Disposal of Waste

Business Name: Baler Equipment Co. Phone: (803) 235-3454

Business Address: P. O. Box 831 City: Taylors State: S. C.

County: Greenville Zip: 29678 Permit No.: Unknown

Amount/Time: 20 Tons Per Month

Methods Used (Be Specific): Corrugated Paper Reclaim

V. Storage Facilities Owned or Used by Generator for Waste

Amount Stored/Time: None

Amount Transferred/Time: _____ Destination: _____

Method of Storage: _____

Description of Storage Area: _____

Location: _____

Future Plans for Stored Waste: None

RECEIVED

DEC 18 1979

S. C. D. H. E. C.
SPARTANBURG

Monsanto

MONSANTO TEXTILES COMPANY
P. O. Box 165
Blacksburg, South Carolina 29702
Phone: (803) 839-2302

M. Bill
File

Cherokee
County

December 14, 1979

Mr. William L. Buffington, Jr.
Environmental Quality Manager
Appalachia III District
2084 East Main Street Extension
Spartanburg, South Carolina 29302

Dear Mr. Buffington:

As we discussed during your visit, the Monsanto Textiles Company, Blacksburg plant, is not a manufacturing facility and, therefore, does not generate any process waste. The waste that was referred to in your computer printout sheets in the Blacksburg City Dump, Cherokee County Dump and Cherokee County Landfill consisted of garbage and trash from the plant canteen, plastic bags from bobbin wrappings, corrugated cardboard cartons, and pasteboard tubes (yarn bobbins). The area referred to as the "Blackfield" on your computer printout sheets is located on Monsanto property and should read "Backfield." The waste disposed of in this area consists of scrap wood, cardboard drums, pasteboard tubes (yarn bobbins), etc. These items are too bulky to place in the "compactor/dumpster" we now use.

I trust the above satisfactorily answers the questions you raised during our discussion in my office on Tuesday, December 12, 1979.

Sincerely,

J. R. Baines
J. R. Baines
Supervisor,
Personnel & Services



a unit of Monsanto Company

S. C. DEPT. OF HEALTH
AND ENVIRONMENTAL CONTROL
ENVIRONMENTAL QUALITY CONTROL
J. MARION SIMS BUILDING
COLUMBIA, SOUTH CAROLINA 29201

DATE 7 May 1980		COUNTY Cherokee
PROJECT J. Earley - Insect disposal		
LOCATION Cherokee		
WATER	SEWAGE	OTHER Solid Waste
PRESENT AT SITE		
NAME J. Earley -		TITLE

TO file
CHEROKEE CO

THE FOLLOWING WAS NOTED:

On 7 May 1980, since I was in Blacksburg on other matters, I stopped by to discuss Insect disposal with J. Earley.

Mr. Earley and I discussed the Insect Rep- and he will apply for a Insect disposal permit as soon as he can gather the information together.

White - file
RST - worksheets
DAP

FIELD INSPECTION REPORT

SIGNED William L. Duff, Jr.
Mr. L. Duff, Jr.

(

Bill

②

Monsanto

MONSANTO TEXTILES COMPANY
P. O. Box 165
Blacksburg, South Carolina 29702
Phone: (803) 839-2302

September 2, 1980

RECEIVED

SEP 04 1980

S. C. D. H. E. C.
SPARTANBURG

Mr. William L. Buffington, Jr.
Environmental Quality Manager
Appalachia III District
South Carolina Department of Health
and Environmental Control
2084 East Main Street Extension
Spartanburg, South Carolina 29302

Dear Mr. Buffington:

On your last visit I indicated that our permit application to operate an inert disposal site was being reviewed by our company environmental coordinator. We now have approval to submit the application (attached) for your review and approval. If the permit meets with your approval, please forward it to your Columbia office for final approval.

If there are any problems, please contact me.

Sincerely,

John D. Easley

John D. Easley
Supt., Maintenance Support

JDE/pp

Attachment



a unit of Monsanto Company

SOUTH CAROLINA DEPARTMENT OF HEALTH
AND ENVIRONMENTAL CONTROL
COLUMBIA, S. C.

APPLICATION FOR PERMIT TO CONSTRUCT
SOLID WASTE MANAGEMENT SYSTEM
(INERT AND CELLULOSIC MATERIALS)

Date of Application September 2, 1980 County Cherokee

Name of Project (Location and Description) Monsanto Blacksburg Inert Landfill located
on Monsanto property near intersection of Interstate 85 and SC Road 99 in Cherokee County.

Nearest Landfill (Name and Location) Cherokee County Landfill off Highway 18,
Gaffney, S. C.

Type (s) and Amount (s) of Waste (s) Generated Approximately one (1) cubic yard per day
of inert wastes including wood, cardboard, and metal scraps.

This application is being made on behalf of Monsanto Company, Blacksburg Plant
whose address is P. O. Box 165, Blacksburg, S. C. 29702

Designing Engineer

Official Directly Responsible

John D. Easley

(Address)

Superintendent, Maintenance Support

(Official Title)

(Phone)

803/839-2302

(Phone)

Application No.

File in Quadruplicate

South Carolina
Department of
Health and
Environmental
Control

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COMMISSIONER
Robert S. Jackson, M.D.
2600 Bull Street
Columbia, S. C. 29201

Environmental Quality Control
2084 East Main Street
Spartanburg, South Carolina 29302

September 8, 1980

Mr. John D. Easley
Superintendent, Maintenance Support
Monsanto Textiles Company
Post Office Box 165
Blacksburg, South Carolina 29702

Dear Mr. Easley:

This is to confirm that your correspondence of September 2, 1980 was received by this office on September 4, 1980.

This correspondence has been forwarded to our Columbia office for final approval.

If you should have any questions, kindly contact me at 582-5681.

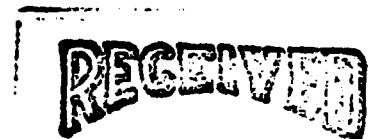
Sincerely,

William L. Buffington Jr.

William L. Buffington, Jr., R.S.
District Solid Waste Consultant
Environmental Quality Control
Appalachia III District

WLB,jr./dlk

cc: ✓ Hartsill Truesdale



SEP 9 1980

S. C. DEPT. OF HEALTH AND
ENVIRONMENTAL CONTROL
SOLID WASTE

2

October 10, 1980

Mr. John D. Easley
Superintendent, Maintenance Support
Monsanto Textiles Company
P. O. Box 165
Blacksburg, SC 29702

RE: Application for Permit to Construct an Inert and Cellulosic
Landfill - Monsanto Company - Blacksburg - Cherkokee County

Dear Mr. Easley:

This is to acknowledge receipt of the referenced permit application and to note the following additional information which is required for further evaluation:

1. Cross sections of a typical trench
2. A topographic map

Thank you for your cooperation in this matter. Please feel free to call me if you have any questions.

Sincerely,

C. Allen McEntire
Environmental Engineer
Facilities Evaluation Section
Division of Engineering and
Program Development

CAM:dhs

Monsanto

MONSANTO TEXTILES COMPANY
P. O. Box 165
Blacksburg, South Carolina 29702
Phone: (803) 839-2302

November 24, 1980

Mr. C. Allen McEntire
Environmental Engineer
Facilities Evaluation Section
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

Dear Mr. McEntire:

In your letter of October 10, 1980, you requested additional information on our landfill permit application. The information you required for further evaluation included the following:

1. Cross section of a typical trench.
2. A topographic map.

Please find attached the information you requested. The trench cross section is added on our Drawing C1100, Revision 1. The topographic map is a copy from a soil conservation map. I have been working with Bill Buffington, out of your Spartanburg office, on this information in order to ensure that it will satisfy your requirements.

If I can be of further assistance, please let me know.

Sincerely,



John D. Easley
Supt., Maintenance Support

JDE/pp

Attachments



a unit of Monsanto Company

December 19, 1980

Mr. John D. Easley
Monsanto Textiles Company
P. O. Box 165
Blacksburg, SC 29702

RE: Cellulosic permit application - Cherokee County

Dear Mr. Easley:

This office is currently reviewing the additional information submitted to this office for a permit to dispose of cellulosic wastes on plant property in Cherokee County. From the location maps submitted to this office, it has been noted that the plant is in close proximity (≤ 10 miles) of the existing Cherokee County Landfill. It would appear that the most cost effective solution to the problem at your facility would be to utilize the existing nearby sanitary landfill. However, the Department recognizes that circumstances could exist which could eliminate this as a possible disposal option. Therefore, this office will continue to evaluate this permit application.

After considering the economic feasibility of utilizing the existing landfill as opposed to operating your own site, please contact this office as to the direction you prefer to take.

If you have any further questions, please feel free to contact me at 758-5681.

Sincerely,

C. Allen McEntire
Facilities Evaluation Section
Bureau of Solid And Hazardous
Waste Management

CAM:dhs

Monsanto

MONSANTO TEXTILES COMPANY
P. O. Box 165
Blacksburg, South Carolina 29702
Phone: (803) 839-2302

January 27, 1981

Mr. C. Allen McEntire
Facilities Evaluation Section
Bureau of Solid and Hazardous
Waste Management
2600 Bull Street
Columbia, South Carolina 29201

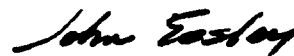
Dear Mr. McEntire:

RE: Cellulosic Permit Application - Cherokee County
and your letter dated 12/19/80

We have considered the feasibility of utilizing the Cherokee County Landfill as an alternative solution to waste disposal, but feel that our existing landfill is the most economical and practical method. Please continue to evaluate our permit application.

If you have additional questions, please let me know.

Sincerely,



John D. Easley
Supt., Maintenance Support

JDE/pp



a unit of Monsanto Company

JAN 29 1981

South Carolina
Department of
Health and
Environmental
Control

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2600 Bull Street
Columbia, S. C. 29201

February 4, 1981

TO: Hartsill W. Truesdale, P.E., Director *HWT*
Division of Engineering and Program Development

FROM: C. Allen McEntire, Environmental Engineer *C. Allen McEntire*
Facilities Evaluation Section

RE: Monsanto Textiles Company
Cherokee County

I have reviewed the permit application from the above referenced facility and have found it to be in compliance with State regulations regarding operation of an industrial landfill.

CAM:dhs

31

February 4, 1981

Mr. John D. Easley
Monsanto Textiles Company
P. O. Box 165
Blacksburg, SC 29702

RE: Industrial Landfill Permit #IWP-179
Cherokee County

Dear Mr. Easley:

Enclosed please find Industrial Landfill Permit #IWP-179 issued to Monsanto Textiles Company for the operation of an industrial solid waste disposal facility. This site is located in Cherokee County on plant property near the intersection of Interstate 85 and SC Road 99. Wastes at this site will be limited to inert materials including wood, cardboard and metal scraps. It is the responsibility of Monsanto Textiles Company to ensure that all unauthorized waste is prohibited from the site.

The facility shall be run in accordance with the plans and report submitted to this Office. Further, the following conditions will apply:

1. Site shall be spread, compacted, and covered every fifteen (15) days.
2. Final cover for the landfill shall consist of at least two (2) feet of clean compacted soil.
3. The landfill area shall be graded and seeded with an appropriate vegetative cover after completion of landfilling.

This permit is valid for a period of three (3) years from the date of issue. During this time, representatives of this Office will conduct periodic inspections to ensure compliance with State Regulations and permit conditions. At the end of this period, the permit may be extended if operation has been satisfactory.

Mr. Easley
Page 2
Februray 4, 1981

3

If you have any questions, please feel free to contact this office.

Sincerely,

Hartsill W. Truesdale, P.E., Director
Division of Engineering and
Program Development
Bureau of Solid and Hazardous
Waste Management

HWT:dhs

cc: W. L. Buffington, Jr.

Enclosure

SOLID WASTE MANAGEMENT SYSTEM PERMIT RECORD

Name of Establishment Monsanto Textiles Company
Address P. O. Box 165, Blacksburg, SC 29702
Supervisor John D. Easley Phone (803) 839-2302
Permit to Operate an Industrial Landfill
Date Issued February 4, 1981 Permit No. IWP-179
Approved By Robert E. Malpass, P.E., Chief, Bureau of Solid and Hazardous Waste Management

South Carolina Department Of Health And Environmental Control

Page 1 of 2



**Solid Waste Management Division
Columbia, South Carolina**

Permit

Monsanto Textiles Company is hereby issued a permit
to operate an Industrial Landfill

located on Plant Property in Blacksburg, SC, in accordance
with State laws, rules and regulations of the South Carolina Department of Health and
Environmental Control and the following conditions:

1. Site to be run in accordance with plans and report submitted to
this Office.
2. Waste at site restricted to inert waste including wood, cardboard,

Permit conditions continued
on Page 2 of 2.

Dated this 4th day of February, 19 81

Permit No. IWP-179

Commissioner

Robert E. Malpass

Robert E. Malpass, P.E., Chief **Director**
Bureau of Solid & Hazardous Waste Mgt

THIS CERTIFICATE IS NON TRANSFERABLE AND IS THE PROPERTY OF THE SOLID WASTE MANAGEMENT DIVISION AND MUST BE
SURRENDERED ON DEMAND. KEEP POSTED AT ALL TIMES IN A CONSPICUOUS PLACE ON THE PREMISES.

DHEC-SWMP-1

Monsanto Textiles Company-IWP-179
Page 2 of 2
February 4, 1981

and metal scraps.

3. Site to be spread, compacted and covered every fifteen (15) days.
4. Final cover for the landfill shall consist of at least two (2) feet of clean compacted soil.
5. Landfill shall be graded and seeded with appropriate vegetative cover after completion of landfiling.

Monsanto

MONSANTO TEXTILES COMPANY

P. O. Box 165
Blacksburg, South Carolina 29702
Phone: (803) 839-2302

February 13, 1981

Mr. Hartsill W. Truesdale, P.E., Director
Division of Engineering and Program Development
Bureau of Solid and Hazardous Waste Management
South Carolina Department of Health and
Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

Dear Hartsill:

John Roberts and I were pleased that Mike Jarrett had made arrangements for us to spend some time with you when we were in Columbia last Friday.

We appreciated the opportunity to explain John's responsibilities with Monsanto.

Thank you for answering our questions so frankly, and we are looking forward to working with you in the future.

Sincerely,



Walter E. Cavell
Plant Manager

WEC/pp

cc: Mr. John T. Roberts
Monsanto Textiles Company
P. O. Box 1057
Greenwood, South Carolina 29646



a unit of Monsanto Company

FEB 18 1981

WHITE-CENTRAL OFFICE

CANARY-CENTRAL OFFICE

PINK-INSPECTOR

GOLDENROD-OPERATOR

SOUTH CAROLINA DEPARTMENT OF HEALTH & ENVIRONMENTAL CONTROL
SOLID WASTE DISPOSAL SITE INSPECTION SHEET

TRANSACTION CODE()

(A=Add, C=Change, D=Delete)

RECORD ID SC/ WFP 179/ 810520
(State Code, Permit #, Inspection Date)02 CALL NUMBER 16403 FACILITY MONSANTO - ~~WATERBURY~~04 ADDRESS P.O. Box 165 (Johnny Toney)05 CITY BLACKSBURG, S.C. 29702
 14 OPER. METHOD I 15 OPER. TYPE IDIN 16 FILL DEPTH MAX. FT. --- WORKING FACE (FT) 17 L --- 18 W ---

MARK EACH ITEM WHERE PROBLEM EXISTS

- | | |
|--------------------------------------|---------------------------------|
| 19 OPERATIONAL CONTROL () | 32 FINAL COVER, GRADING () |
| 20 ALL WEATHER ACCESS ROADS () | 33 STABILIZATION () |
| 21 CONTROLLED ACCESS () | 34 BULKY OBJECT HANDLING () |
| 22 EQUIPMENT () | 35 MONITOR WELLS () |
| 23 DAILY & INTERIM COVER () | 36 ODOR CONTROL () |
| 24 SURFACE DRAINAGE () | 37 DUST CONTROL () |
| 25 WORKING FACE () | 38 FIRE PROTECTION () |
| 26 OPEN BURNING PROHIBITED () | 39 STRAY ANIMALS PROHIBITED () |
| 27 LEACHATE CONTROL () | 40 BLOWING LITTER CONTROL () |
| 28 STREAM QUALITY CONTROL () | 41 AFTER HOURS CONT. MAINT. () |
| 29 UNAUTHORIZED WASTE PROHIBITED () | 42 UNLOADING CONTROLLER () |
| 30 SCAVENGING PROHIBITED () | 43 EMPLOYEE FACILITIES () |
| 31 VECTOR CONTROL () | 44 DAILY RECORDS () |
| | 45 APPROVED PLANS () |

RECOMMENDATIONS AND COMMENTS (COMMENTS ON ALL UNSATISFACTORY ITEMS - SHOW DATA ELEMENT #)

Site looks good. No problems apparent at time of
this inspection -

The signature at the bottom of this report certifies that the inspector has personally checked each item and has answered according to the true condition existing at time of contract.

William L. Buttinger Jr. District Solid Waste Consultant
INSPECTOR'S SIGNATURE TITLE

Date 20 May 1981 Time 2:30 (PM/AM)

I certify that the inspector has given me a copy of this report and has explained all deficiencies noted.

Johnny E. Toney
OWNER/OPERATOR SIGNATURE TITLE

A

A

Department of **RECEIVED**
Health and
Environmental
Control

NOV 20 1981

S. C. D. H. E. C.
SPARTANBURG

William M. Wilson, Chairman
J. Lorin Mason, Jr., M.D., Vice-Chairman
Leonard W. Douglas, M.D., Secretary
Oren L. Brady, Jr.
Moses H. Clarkson, Jr.
Gerald A. Kaynard
Barbara P. Nuessle

COMMISSIONER
Robert S. Jackson, M.D.
2600 Bull Street
Columbia, S.C. 29201

November 19, 1981

TO: William L. Buffington, Jr.
Appalachia III District

THROUGH: *James R. Ullery*
James R. Ullery, P.E., Manager
Waste Identification and Evaluation Section

FROM: Debbie S. Browning *D. Browning*
Waste Identification and Evaluation Section

In order to update the list of permitted facilities I need
a complete list of the active permitted facilities which you inspect.
The list should include both domestic and industrial sites.

DSB:dhs

MONTHLY:

1- WELLFORD	DWP-078	DMSL	
2- CROFT	DWP-002	DMSL	
	DWP-098	New Section	NOT IN USE YET.
3- PALMETTO	DWP-092	DMSL	
4- UNION	DWP-049	DMSL	
5- CHEROKEE	DWP-029	DMSL	
6- GAFFNEY INERT	DWP-908	DMIN	
7- GARRETT INERT	IWP-184	DMIN/CL	

QUARTERLY:

1- KOHLER CO	IWP 071	IDCL		
2- NORTH AMERICAN ROCKWELL	- DRAPER	IWP 103	IDCL	
3- DUKE POWER	IWP 142	IDIN		
4- SOUTHERN WOOD	PIEDMONT	IWP 048	IDCL	
5- C S TANNER	IWP 107	IDHZ		
6- MONSANTO	IWP 179	IDIN	- ALMOST CLOSED.	

Buff
11/23/81

WHITE-CENTRAL OFFICE

CANARY-CENTRAL OFFICE

PINK-INSPECTOR

GOLDENROD-OPERATOR

SOUTH CAROLINA DEPARTMENT OF HEALTH & ENVIRONMENTAL CONTROL
SOLID WASTE DISPOSAL SITE INSPECTION SHEET

TRANSACTION CODE()
(A=Add, C=Change, D=Delete)

RECORD ID SC/INPL79/811210
(State Code, Permit #, Inspection Date)

02 CALL NUMBER 164

03 FACILITY

04 ADDRESS

05 CITY

14 OPER.

METHOD I

15 OPER.

TYPE IDIN

16 FILL DEPTH

MAX. FT.

WORKING

FACE (FT)

17 L 18 W

MARK EACH ITEM WHERE PROBLEM EXISTS

19 OPERATIONAL CONTROL ()

20 ALL WEATHER ACCESS ROADS ()

21 CONTROLLED ACCESS ()

22 EQUIPMENT ()

23 DAILY & INTERIM COVER ()

24 SURFACE DRAINAGE ()

25 WORKING FACE ()

26 OPEN BURNING PROHIBITED ()

27 LEACHATE CONTROL ()

28 STREAM QUALITY CONTROL ()

29 UNAUTHORIZED WASTE PROHIBITED ()

30 SCAVENGING PROHIBITED ()

31 VECTOR CONTROL ()

32 FINAL COVER, GRADING ()

33 STABILIZATION ()

34 BULKY OBJECT HANDLING ()

35 MONITOR WELLS ()

36 ODOR CONTROL ()

37 DUST CONTROL ()

38 FIRE PROTECTION ()

39 STRAY ANIMALS PROHIBITED ()

40 BLOWING LITTER CONTROL ()

41 AFTER HOURS CONT. MAINT. ()

42 UNLOADING CONTROLLER ()

43 EMPLOYEE FACILITIES ()

44 DAILY RECORDS ()

45 APPROVED PLANS ()

RECOMMENDATIONS AND COMMENTS (COMMENTS ON ALL UNSATISFACTORY ITEMS - SHOW DATA ELEMENT #)

Site looks good -

Prior to closing - please request a final inspection of closed landfill site.

The signature at the bottom of this report certifies that the inspector has personally checked each item and has answered according to the true condition existing at time of contract.

William L. Duffin, Jr. 10512/C
INSPECTOR'S SIGNATURE TITLE

Date

10 December 1981

Time

11:30

(AM/PM)

I certify that the inspector has given me a copy of this report and has explained all deficiencies noted.

Johnny Toney, Senior Safety Inspector
OWNER OR OPERATOR SIGNATURE TITLE

WHITE-CENTRAL OFFICE

CANARY-CENTRAL OFFICE

PINK-INSPECTOR

GOLDENROD-OPERATOR

SOUTH CAROLINA DEPARTMENT OF HEALTH & ENVIRONMENTAL CONTROL
SOLID WASTE DISPOSAL SITE INSPECTION SHEET

TRANSACTION CODE()

(A=Add, C=Change, D=Delete)

02 CALL NUMBER 1161

03 FACILITY

04 ADDRESS

05 CITY

14 OPER.

METHOD L

15 OPER.

TYPE INDIN

16 FILL DEPTH

MAX. FT. —

WORKING

FACE (FT)

17 L —18 W —
 RECORD ID SC 1 WPI 79182 0308
 (State Code, Permit #, Inspection Date)

MARK EACH ITEM WHERE PROBLEM EXISTS

19 OPERATIONAL CONTROL ()

20 ALL WEATHER ACCESS ROADS ()

21 CONTROLLED ACCESS ()

22 EQUIPMENT ()

23 DAILY & INTERIM COVER ()

24 SURFACE DRAINAGE ()

25 WORKING FACE ()

26 OPEN BURNING PROHIBITED ()

27 LEACHATE CONTROL ()

28 STREAM QUALITY CONTROL ()

29 UNAUTHORIZED WASTE PROHIBITED ()

30 SCAVENGING PROHIBITED ()

31 VECTOR CONTROL ()

32 FINAL COVER, GRADING ()

33 STABILIZATION ()

34 BULKY OBJECT HANDLING ()

35 MONITOR WELLS ()

36 ODOR CONTROL ()

37 DUST CONTROL ()

38 FIRE PROTECTION ()

39 STRAY ANIMALS PROHIBITED ()

40 BLOWING LITTER CONTROL ()

41 AFTER HOURS CONT. MAINT. ()

42 UNLOADING CONTROLLER ()

43 EMPLOYEE FACILITIES ()

44 DAILY RECORDS ()

45 APPROVED PLANS ()

RECOMMENDATIONS AND COMMENTS (COMMENTS ON ALL UNSATISFACTORY ITEMS - SHOW DATA ELEMENT #)

Site looks good - no problems at time of this inspection

- Plant closed - at the end of March - Company
will contact.

The signature at the bottom of this report certifies that the inspector has personally checked each item and has answered according to the true condition existing at time of contract.

William L. Buthigton Jr. Asst
INSPECTOR'S SIGNATURE TITLE

Date

8 March 1982

Time

1:30

(AM/PM)

I certify that the inspector has given me a copy of this report and has explained any deficiencies noted.

Johnny T. ... Inspector
OWNER OR OPERATOR SIGNATURE TITLE

White-Central

Canary-Central

Pink-Inspector

Goldenrod-Operator

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL
SOLID WASTE DISPOSAL SITE INSPECTION SHEET

CALL NUMBER _____

 RECORD ID 10011001
 (State Code, Permit #, Inspection Date)

03 FACILITY _____

04 ADDRESS _____

05 CITY _____

11 OREP METHOD _____ OREP TYPE _____ FILL DEPTH MAX. FT. _____ WORKING FACE (FT) 17 L _____ 18 W _____

 1-Excellent 2-Satisfactory 3-Improvement Needed 4-Insufficient Data Or N/A
 5-Enforcement Needed Y - Yes N - No

Make one of the above entries for each of the following questions.

- | | |
|---|---|
| 19 Is the site being controlled through the use of signs? Y N 4
20 Does facility have all weather access roads? Y N
21 If yes, the adequacy of the roads are. []
22 If no, how is site being operated in wet weather? [Respond in comment area]
23 Is access to the site controlled? Y N
24 Condition of equipment is. []
25 Application of daily cover is. []
26 The application of interim cover where needed is. []
27 Are diversion structures used to control surface water run-on or run-off? Y N
28 If yes, the adequacy of the structures are. []
29 If no, how is surface water being controlled? [Respond in comment area]
30 Is the working face being operated on an acceptable slope? Y N
31 Is there any evidence of open burning of solid waste? Y N
32 Control of leachate is [] | 33 Control of leachate and/or silt into surface water is. []
34 Prohibition of unauthorized waste is. []
35 Prohibition of scavenging is. []
36 Control of vectors is. []
37 The progressive application of final cover is. []
38 Grading of final cover is. []
39 Progressive stabilization of final cover is. []
40 The condition of monitoring wells are. []
41 Is dust being controlled? Y N
42 Fire protection equipment is. []
43 Prohibition of animals is. []
44 Control of litter is. []
45 Maintenance of after hours containers is. []
46 Is unloading controller needed? Y N
47 Are facilities provided for the employees? Y N
48 The operation of the facility as Y N |
|---|---|

White-Central

Canary-Central

Pink-Inspector

Goldenrod-Operator

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL
SOLID WASTE DISPOSAL SITE INSPECTION SHEET

CALL NUMBER _____

RECORD ID 50/ 100121/ 10-20-80
(State Code, Permit #, Inspection Date)

03 FACILITY _____

04 ADDRESS _____

05 CITY _____

14 OPER. METHOD _____ OPER. TYPE _____ FILL DEPTH MAX. FT. _____ WORKING FACE (FT) 17 L _____ 10 W _____

1-Excellent 2-Satisfactory 3-Improvement Needed 4-Insufficient Data Or N/A
5-Enforcement Needed Y - Yes N - No

Make one of the above entries for each of the following questions.

- | | |
|---|--|
| <p>19 Is the site being controlled through the use of signs? Y N 4</p> <p>20 Does facility have all weather access roads? Y N</p> <p>21 If yes, the adequacy of the roads are. []</p> <p>22 If no, how is site being operated in wet weather? [Respond in comment area]</p> <p>23 Is access to the site controlled? Y N</p> <p>24 Condition of equipment is. []</p> <p>25 Application of daily cover is. []</p> <p>26 The application of interim cover where needed is. []</p> <p>27 Are diversion structures used to control surface water run-on or run-off? Y N</p> <p>28 If yes, the adequacy of the structures are. []</p> <p>29 If no, how is surface water being controlled? [Respond in comment area]</p> <p>30 Is the working face being operated on an acceptable slope? Y N</p> <p>31 Is there any evidence of open burning of solid waste? Y N</p> <p>32 Control of leachate is. []</p> | <p>33 Control of leachate and/or silt into surface water is. []</p> <p>34 Prohibition of unauthorized waste is. []</p> <p>35 Prohibition of scavenging is. []</p> <p>36 Control of vectors is. []</p> <p>37 The progressive application of final cover is. []</p> <p>38 Grading of final cover is. []</p> <p>39 Progressive stabilization of final cover is. []</p> <p>40 The condition of monitoring wells are. []</p> <p>41 Is dust being controlled? Y N</p> <p>42 Fire protection equipment is. []</p> <p>43 Prohibition of animals is. []</p> <p>44 Control of litter is. []</p> <p>45 Maintenance of after hours containers is. []</p> <p>46 Is unloading controller needed? Y N</p> <p>47 Are facilities provided for the employees? Y N</p> <p>48 The operation of the facility as compared with the plans is. []</p> |
|---|--|

July 19, 1982

Mr. John D. Easley
Monsanto Textiles Company
P. O. Box 165
Blacksburg, SC 29702

RE: Industrial Landfill Permit #IWP-179
Cherokee County

Dear Mr. Easley:

An inspection of the above referenced site was made on June 30, 1982 and it is the opinion of this office that the site has been properly closed and is no longer being use. In order to remove this site from our active files, this office is requesting that the permit be returned.

This does not relieve Monsanto Corporation of its responsibility of maintaining this site in the manner prescribed in the enclosed Regulation 61-61.

If you have any questions, please call me at 758-5681.

Sincerely,

J. Keith Lindler
Facilities Evaluation Section
Bureau of Solid and Hazardous
Waste Management

JKL:dhs

cc: William L. Buffington, Jr.

Enclosure

White-Central

Canary-Central

Pink-Inspector

Goldenrod-Operator

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL
SOLID WASTE DISPOSAL SITE INSPECTION SHEET

CALL NUMBER 164
 RECORD ID SC 100PL291 C63082
 (State Code, Permit #, Inspection Date)

03 FACILITY Measbott

04 ADDRESS P.O. Box 165

05 CITY Blacksburg, South Carolina 29702

14 OPER. METHOD T OPER. TYPE IDIN FILL DEPTH MAX. FT. — WORKING FACE (FT) 17 L — 18 W —

1-Excellent 2-Satisfactory 3-Improvement Needed 4-Insufficient Data Or N/A
 5-Enforcement Needed Y - Yes N - No

Make one of the above entries for each of the following questions.

- | | |
|---|--|
| <p>19 Is the site being controlled through the use of signs? Y N 4</p> <p>20 Does facility have all weather access roads? Y N</p> <p>21 If yes, the adequacy of the roads are. []</p> <p>22 If no, how is site being operated in wet weather? [Respond in comment area]</p> <p>23 Is access to the site controlled? Y N</p> <p>24 Condition of equipment is. []</p> <p>25 Application of daily cover is. []</p> <p>26 The application of interim cover where needed is. []</p> <p>27 Are diversion structures used to control surface water run-on or run-off? Y N</p> <p>28 If yes, the adequacy of the structures are. []</p> <p>29 If no, how is surface water being controlled? [Respond in comment area]</p> <p>30 Is the working face being operated on an acceptable slope? Y N</p> <p>31 Is there any evidence of open burning of solid waste? Y N</p> <p>32 Control of leachate is. []</p> | <p>33 Control of leachate and/or silt into surface water is. []</p> <p>34 Prohibition of unauthorized waste is. []</p> <p>35 Prohibition of scavenging is. []</p> <p>36 Control of vectors is. []</p> <p>37 The progressive application of final cover is. []</p> <p>38 Grading of final cover is. []</p> <p>39 Progressive stabilization of final cover is. []</p> <p>40 The condition of monitoring wells are. []</p> <p>41 Is dust being controlled? Y N</p> <p>42 Fire protection equipment is. []</p> <p>43 Prohibition of animals is. []</p> <p>44 Control of litter is. []</p> <p>45 Maintenance of after hours containers is. []</p> <p>46 Is unloading controller needed? Y N</p> <p>47 Are facilities provided for the employees? Y N</p> <p>48 The operation of the facility as compared with the plans is. []</p> |
|---|--|

WHITE-CENTRAL OFFICE

CANARY-CENTRAL OFFICE

PINK-INSPECTOR

GOLDENROD-OPERATOR

SOUTH CAROLINA DEPARTMENT OF HEALTH & ENVIRONMENTAL CONTROL
SOLID WASTE DISPOSAL SITE INSPECTION SHEET

TRANSACTION CODE()
(A=Add, C=Change, D=Delete)

RECORD ID SC 10P1791820308
(State Code, Permit #, Inspection Date)

02 CALL NUMBER 164

03 FACILITY

04 ADDRESS

05 CITY

14 OPER.

METHOD I

15 OPER.

TYPE IDIN

16 FILL DEPTH

MAX. FT. ---

WORKING

FACE (FT)

17 L ---18 W ---

MARK EACH ITEM WHERE PROBLEM EXISTS

19 OPERATIONAL CONTROL ()

20 ALL WEATHER ACCESS ROADS ()

21 CONTROLLED ACCESS ()

22 EQUIPMENT ()

23 DAILY & INTERIM COVER ()

24 SURFACE DRAINAGE ()

25 WORKING FACE ()

26 OPEN BURNING PROHIBITED ()

27 LEACHATE CONTROL ()

28 STREAM QUALITY CONTROL ()

29 UNAUTHORIZED WASTE PROHIBITED ()

30 SCAVENGING PROHIBITED ()

31 VECTOR CONTROL ()

32 FINAL COVER, GRADING ()

33 STABILIZATION ()

34 BULKY OBJECT HANDLING ()

35 MONITOR WELLS ()

36 ODOR CONTROL ()

37 DUST CONTROL ()

38 FIRE PROTECTION ()

39 STRAY ANIMALS PROHIBITED ()

40 BLOWING LITTER CONTROL ()

41 AFTER HOURS CONT. MAINT. ()

42 UNLOADING CONTROLLER ()

43 EMPLOYEE FACILITIES ()

44 DAILY RECORDS ()

45 APPROVED PLANS ()

RECOMMENDATIONS AND COMMENTS (COMMENTS ON ALL UNSATISFACTORY ITEMS - SHOW DATA ELEMENT #)

Site looks good - no problems at time of this inspection.

- Plant closed - at the end of March - Company will contact.

The signature at the bottom of this report certifies that the inspector has personally checked each item and has answered according to the true condition existing at time of contract.

William L. Burdette, Jr. NSIC
INSPECTOR'S SIGNATURE TITLE

Date

8 March 1982

Time

1:30

(AM/PM)

I certify that the inspector has given me a copy of this report and has explained any deficiencies noted.

John E. Tinsley Safety Inspector
OWNER OR OPERATOR SIGNATURE TITLE

MONSANTO COMPANY

BLACKSBURG PLANT

DESCRIPTION OF INERT DISPOSAL SITE

Find attached an aerial photograph and drawing of the disposal area. Note that there are no homes, commercial or industrial buildings adjacent to the site.

The disposal area is at approximately the same elevation as the area immediately surrounding it. Surface water runoff is not a problem and no drainage devices are required. Dirt from excavation of the burial pit is used as cover material. Access to the site is controlled by a fence and chain with woodland surrounding the remainder of the area. There is a gravel service road to the disposal area.

The land is generally clear so that no special provisions are necessary to dispose of land clearing debris. The water table at the lowest point of the fill area is estimated to be 150 feet. There is no standing water in the disposal area. The frequency of covering is thirty (30) days. Completed sites are covered with at least two (2) feet of earth and seeded with native vegetation. Wastes are not burned; however, the plant fire brigade and two volunteer fire departments (Blacksburg and Antioch) are on hand in case of fire. An average of one (1) cubic yard of waste is disposed of daily with an expected life of four (4) years per pit. The site was originally farmland and the soil is generally clay.

This site is used strictly for disposal of inert wastes such as wood, cardboard, and scrap metal.

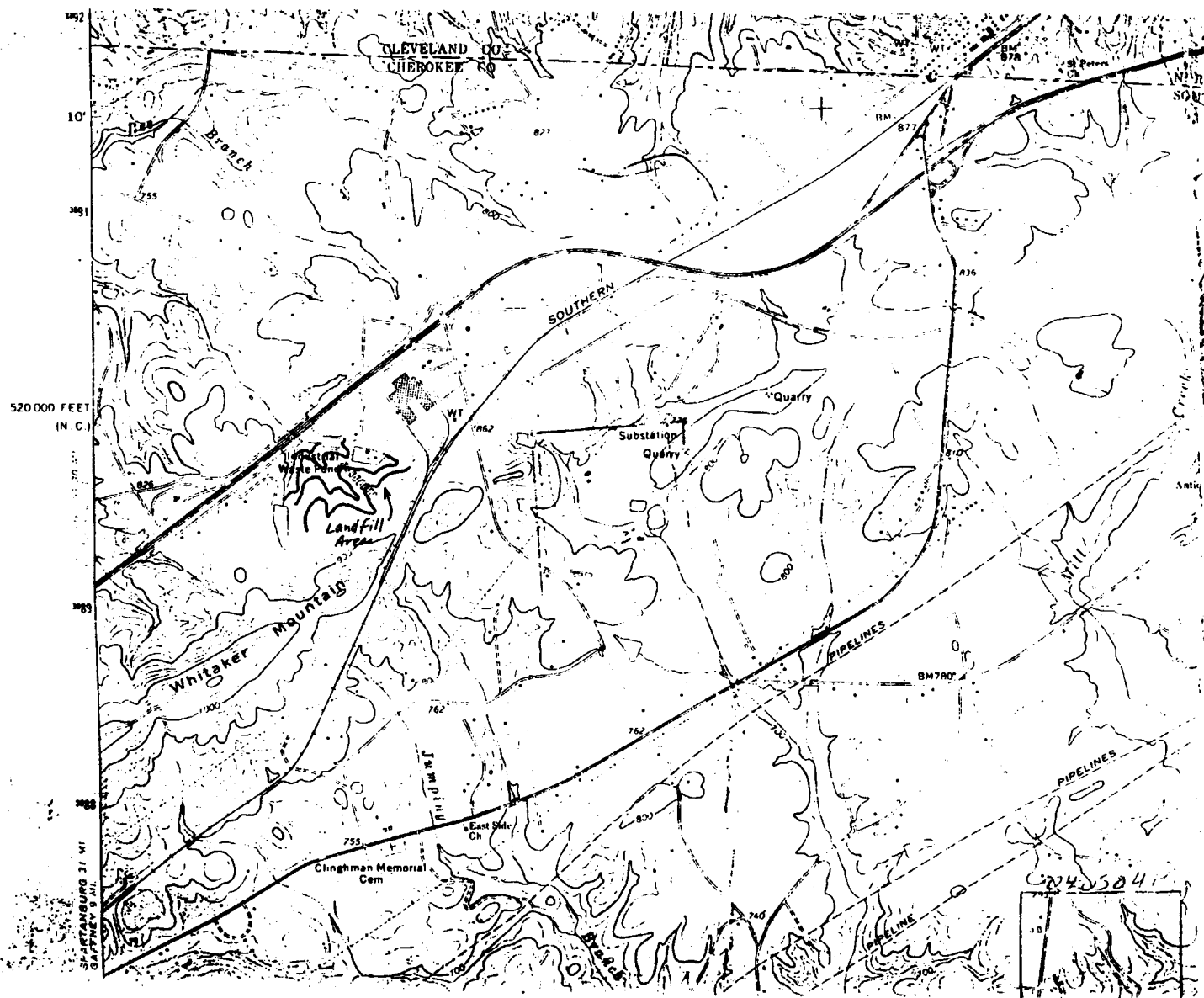
MONSANTO BLACKSBURG INERT LANDFILL

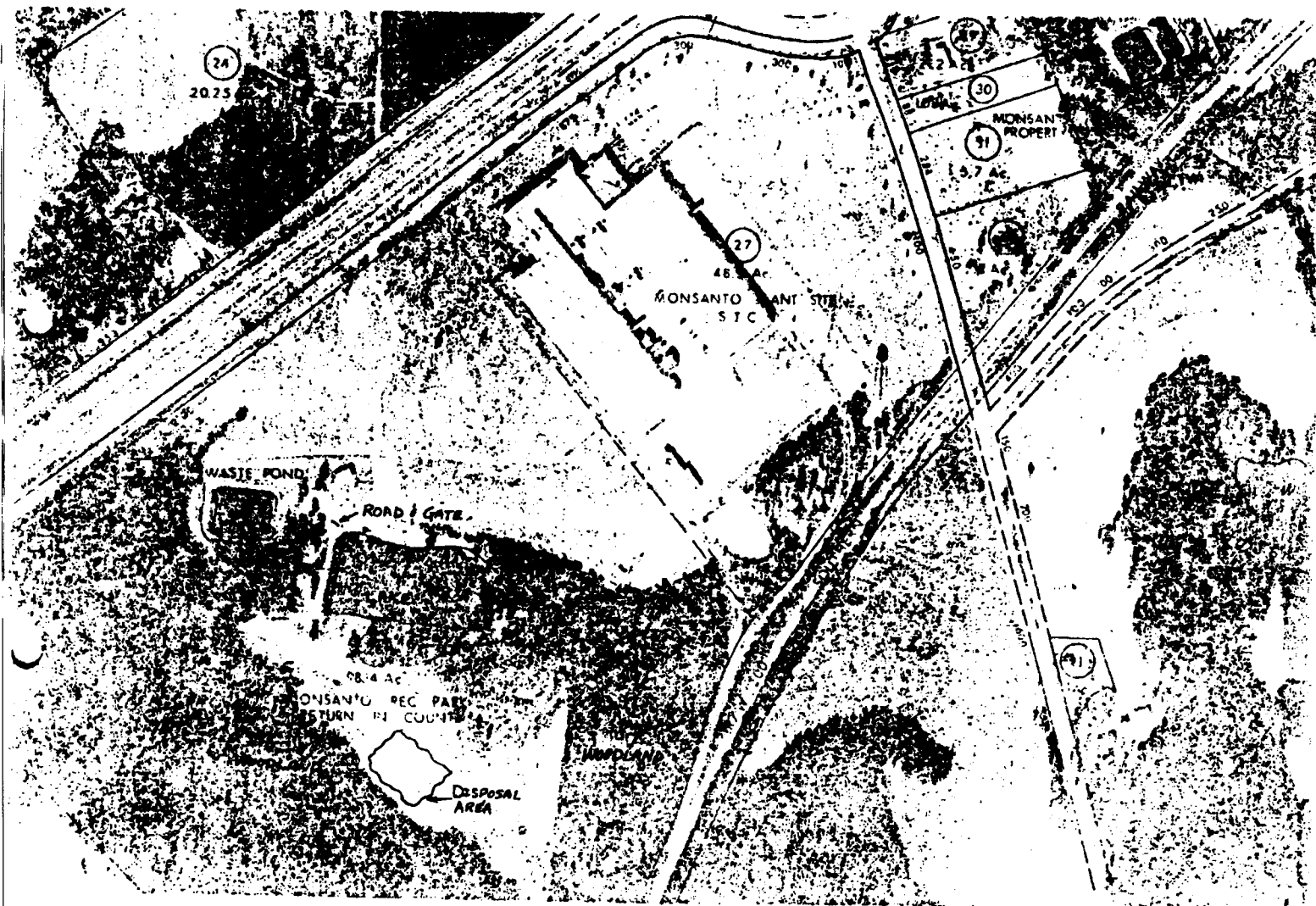
Additional Info. Required

I Plot Plan

1. Cross sections of both the original & proposed fill elevations
2. Grades for drainage (Topo map?)
- ? 3. show fencing on map

~~4~~



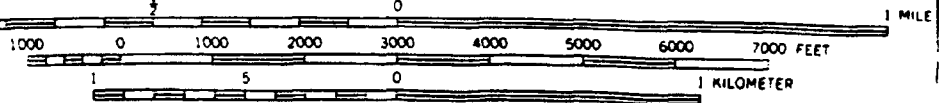


PROPERTY MAP AND RECORDS SYSTEM
CHEROKEE COUNTY, S.C.

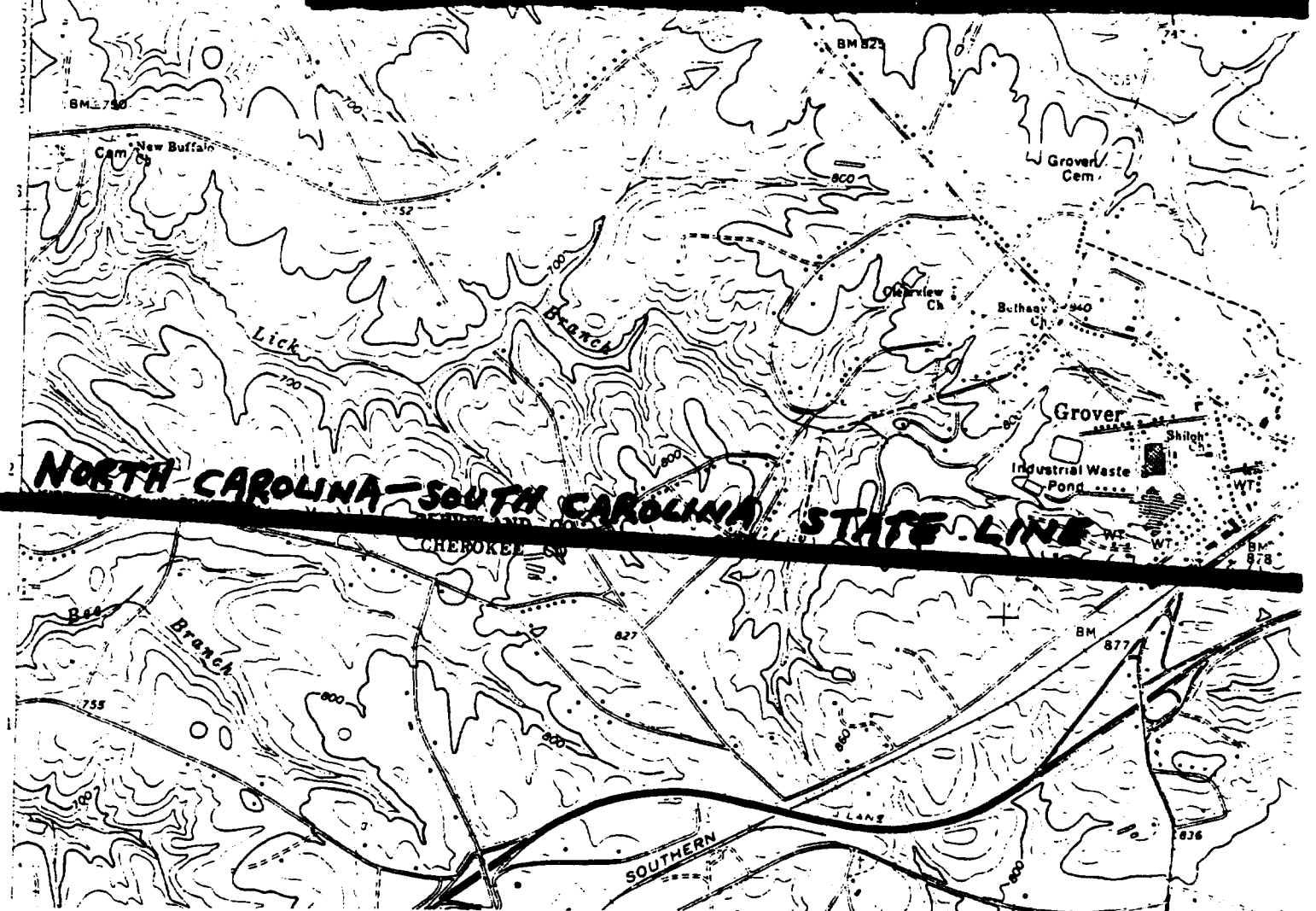
NORTH CAROLINA-SOUTH CAROLINA
7.5 MINUTE SERIES (TOPOGRAPHIC)

location.

SCALE 1:24,000



CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL



NUS CORPORATION AND SUBSIDIARIES**TELECON NOTE****CONTROL NO.****DATE:** May 10, 1988**TIME:** 1400**DISTRIBUTION:**

Monsanto Textiles Company
F4-8801-30

BETWEEN: Ernest Dixon, Assistant
Manager

OF: Export Leaf Tobacco Co.

PHONE: (803) 839-2717

AND: Jerri Higgins: NUS FIT 4

DISCUSSION:

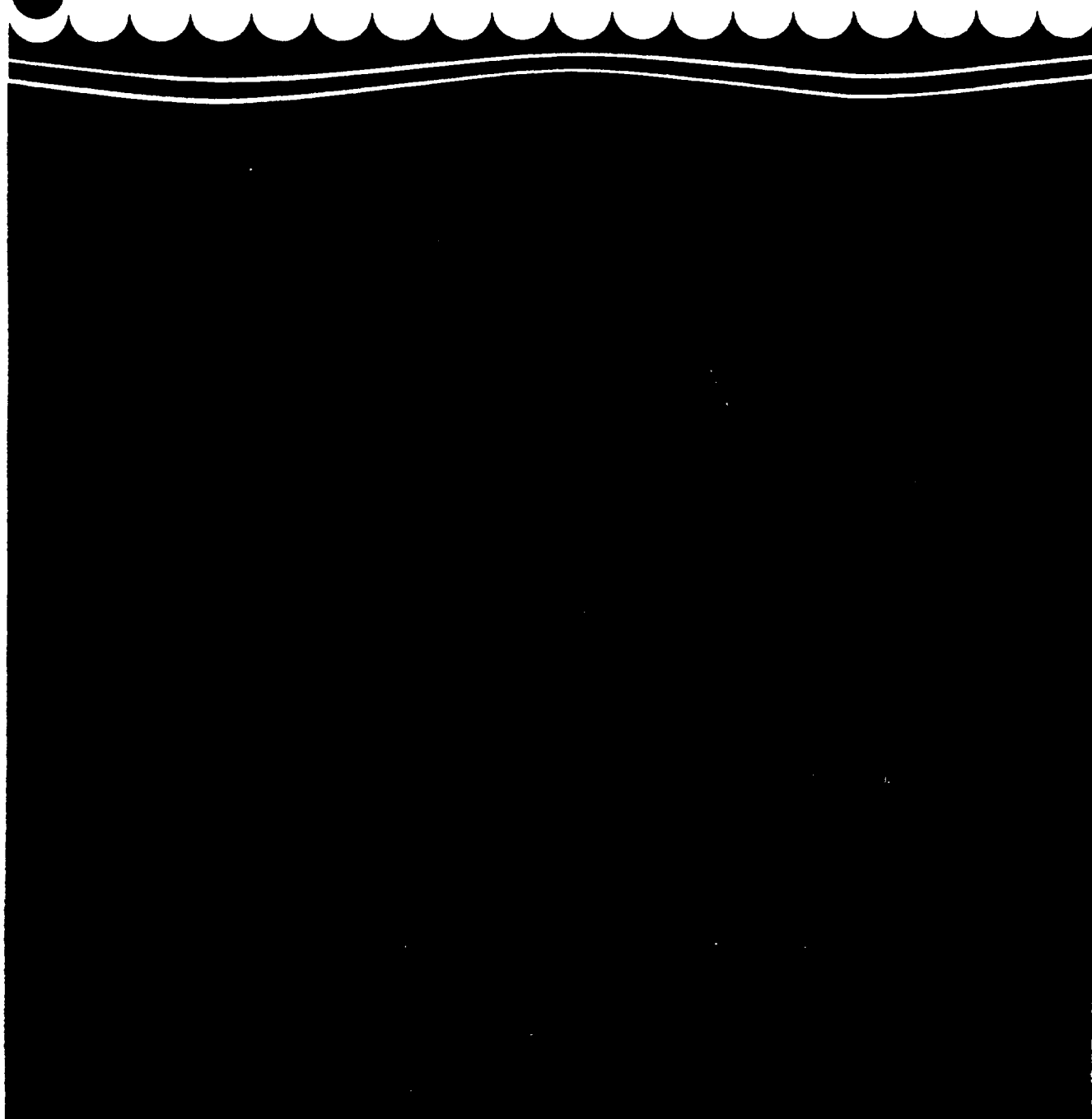
Mr. Dixon verified the location of well #3 on the property of the Export Leaf Tobacco Co. (previously Monsanto Textiles Company). It is directly in front of the main plant building next to the access road which runs parallel to Interstate 85. The well is still used as a source of potable water for the employees at the facility.

JD
5/11/88

Reference No. 3



South Carolina State Water Assessment



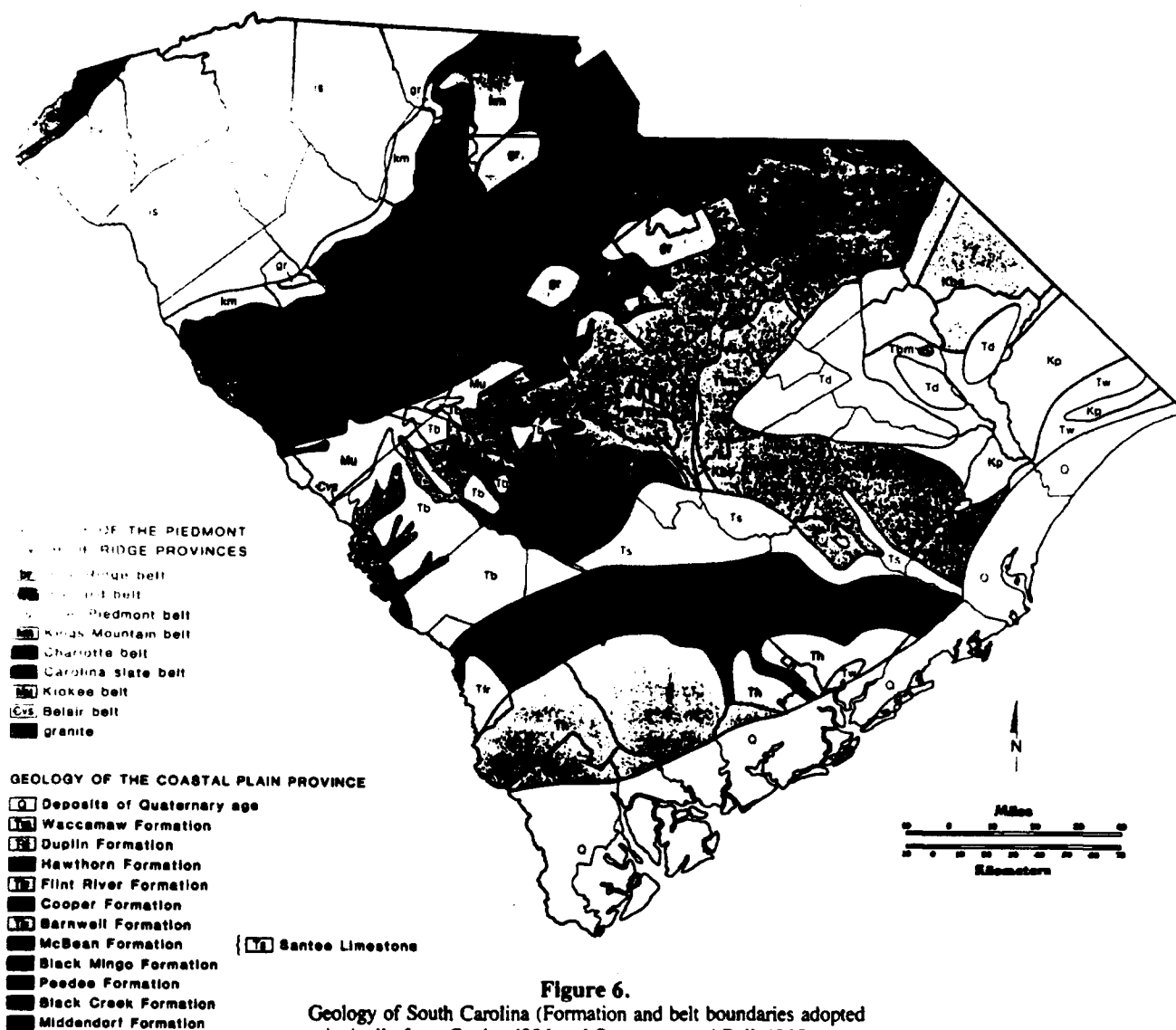


Figure 6.
Geology of South Carolina (Formation and belt boundaries adopted principally from Cooke, 1936 and Overstreet and Bell, 1965).

Historical Overview

The geology of South Carolina is characterized by two principal rock types, the crystalline rocks of the Blue Ridge and Piedmont and the unconsolidated sediments of the Coastal Plain (Fig. 6)*. The crystalline rocks have been classified into seven geologic belts, the Blue Ridge, Inner

* The geologic map used in this report (Figure 6) has been adopted principally from the widely accepted formation boundaries described by Cooke (1936) and Overstreet and Bell (1965). The authors recognize that changes to the precise location and/or name of units of pre-Pleistocene age have been suggested for large portions of the Coastal Plain (Siple, 1959; Renfro and Ferry, 1970) as well as more limited Coastal Plain areas (Maulde, 1959; Pooser, 1965; Colquhoun, 1965, 1969; Siple, 1967a, 1975). Changes to the lithology, structure, age, and seismicity of individual rock units in the Blue Ridge and Piedmont have also been suggested (Daniels, 1974; Smoke, 1978; Prowell, 1978).

Piedmont, Kings Mountain, Charlotte, Carolina slate, Keokee, and Belair belts which were derived from ancient sedimentary, volcanic, and igneous rocks (Overstreet and Bell, 1965). These rocks were metamorphosed to their present form during the collision of the North American and African Plates in the Ordovician to Mississippian Periods about 345 to 500 million years ago (Hatcher, 1972).

The current structure and arrangement of these geologic belts were formed when layers of ancient unmetamorphosed rock were pushed together end-to-end by the colliding continental plates. The force of this collision transformed the once flat rock layers into several folded layers, much like a rug folds when pushed from opposite ends.

During the latter part of this plate collision, the folded rock layers were faulted and subsequently intruded by igneous rocks. It is theorized that after this period of collision, the continents separated, opening the present Atlantic Ocean Basin and causing the development of minor basins, such as the northeast trending Triassic Basin underlying the Savannah River Plant (Siple, 1967).

Subsequent erosion of the crystalline rock exposed the

schist – a metamorphic rock in which the mineral grains are arranged in a parallel fashion which tends to have an undulating surface when broken; often named by major mineral constituent, such as mica-schist.

sillimanite – a brown, grayish, or white mineral which occurs in long slender, needle-like crystals often found as fibrous aggregates in gneisses or schists; it forms at the highest temperatures and pressures of regional metamorphism.

slate – shale that has undergone a low grade of metamorphism so that it becomes harder and more brittle but still retains its fine-grained platy nature.

stratigraphy – the study of stratified rocks (mainly sedimentary, but not excluding igneous and metamorphic) in terms of rock characteristics, sequence in time, and correlation of beds.

trough – any long depression, as between two ridges.

unit (stratigraphic) – a stratum or strata recognized as a unit for classification with regards to rock characteristics for the purpose of description, correlation, or mapping.

volcanic – of or relating to materials from volcanoes in the form of lava flows (molten rock) or volcanic ejected material, such as rock, cinder, or ash.

various rock types apparent today. Erosion of up-bulging folds exposed deeply formed rocks, such as in the Blue Ridge, Inner Piedmont, and Charlotte belts. Erosion of down-buckled folds exposed only upper-layer rocks, such as in the Kings Mountain and Carolina slate belts. The rock units of these seven geologic belts represent varying degrees of metamorphism as well as differing rock types. The Inner Piedmont belt is believed to represent the most metamorphosed region (Hatcher, 1972) with the degree of metamorphism progressively decreasing eastward.

During the more recent past, from the Cretaceous to Quaternary periods, the Coastal Plain sediments were deposited on the surface of the crystalline rocks. These sediments were derived from erosion of the Blue Ridge and Piedmont rocks as well as from marine deposits when the oceans were at a much higher level.

The land surface of South Carolina slopes southeasterly toward the ocean with local relief also decreasing in that direction. The physiographic provinces, which lie perpendicular to this slope, exhibit distinct land surface and geologic characteristics.

Blue Ridge Province

The Blue Ridge Province occupies only two percent of the State's land area and is located in the extreme northwest portion of South Carolina. This mountainous region has elevations ranging from 1,000 feet in the foothills to 3,554 feet at Sassafras Mountain, the highest point in South Carolina.

The Blue Ridge belt and the Brevard fault zone are the major geological features of this province. These features were created when a unit of folded and metamorphosed rock was thrust up from under the Piedmont rocks approximately 250 million years ago during the late stages of continental plate collision (Hatcher, 1972). Rocks of the Blue Ridge belt include schist, gneiss, and granite. Rocks of the Brevard fault zone consist of phyllonite, derived from the shearing and crushing of gneisses and schists along the fault, and blastomylonite which is partially recrystallized phyllonite.

Piedmont Province

The Piedmont Province covers roughly 35 percent of the State and lies between the Blue Ridge and Coastal Plain

Provinces. The rolling hills of the Piedmont range in elevation from 1,000 feet near the mountains to about 400 feet at the Fall Line. This land surface represents an ancient erosional plain which has been uplifted and moderately dissected to an advanced stage of erosion. Most of this province is mantled by a layer of chemically weathered bedrock called saprolite, which varies considerably in thickness depending on location.

The bedrock of this province is comprised of the metamorphic rocks of the Inner Piedmont, Kings Mountain, Charlotte, Carolina slate, Kiokee, and Belair belts. The Inner Piedmont belt contains rocks of medium to high metamorphic grade which include granitic gneiss, mica schist, sillimanite schist, and amphibolite. Rocks of the Kings Mountain belt are of lower metamorphic grade than are those of surrounding belts. Rocks typical of this belt are sericite schist, hornblende schist, quartzite, and marble. Charlotte belt rocks are of medium to high metamorphic grade and include gneiss, schist, and amphibolite. The Carolina slate belt rocks are of low metamorphic grade including argillite, slate, and exposed basement rocks such as muscovite schist and gneiss. The Kiokee belt is of similar metamorphic grade to the Charlotte belt, and consists of primarily granitic gneiss, biotite-muscovite schist, and microcline gneiss. The Belair belt closely resembles the Carolina slate belt in metamorphic grade, and is composed mainly of faulted argillite.

Coastal Plain Province

The Coastal Plain Province occupies approximately the southeastern two-thirds of the State. The Fall Line defines the irregular division between this province and the Piedmont Province. The Coastal Plain is subdivided into three physiographic regions, the Upper, Middle, and Lower Coastal Plain. These regions are differentiated by topographic and geomorphic features formed millions of years ago when ocean levels were much higher than at present.

The Upper Coastal Plain extends southeast from the Fall Line to the Citronelle Escarpment (Doering, 1960). This ancient sand dune region includes the Carolina Sand Hills and is characterized by moderately sloped, irregularly shaped, and generally rounded terrain. The Middle Coastal Plain lies between the Citronelle and Surry escarpments,

Environmental Protection Agency (1976b) ranked this lake seventh in trophic quality out of 13 South Carolina lakes surveyed. That same agency also determined that 76 percent of the phosphorus entering the lake was due to non-point sources. About three-fourths of the shoreline is infested with the aquatic weed slender naiad (*Najas minor*) which impairs recreational and municipal water supply use of the lake (S.C. Aquatic Plant Management Council, 1982).

Water quality in Monticello Reservoir does not impair current water use activities. This recently impounded lake experiences depressed dissolved oxygen levels in deep waters during summer months (U.S. Geological Survey, 1981; Dames and Moore, 1981). While a fish kill of about 2,000 shad in August, 1980 was partially attributed to low dissolved oxygen concentrations, this condition is not unusual for stratified lakes of this type and aquatic organisms are generally unaffected.

GROUND WATER

Hydrogeology

The level of hydrogeologic knowledge in the sub-basin ranges from the field data level over most of the area to the evaluation level in Greenville County (Fig. 18).

The Broad River Sub-basin lies almost entirely within the Piedmont Province where ground water occurs principally in fractures formed by fault and joint systems and in the saprolite. The Coastal Plain sediments extend into the extreme southern portion of the sub-basin and constitute a shallow sandy aquifer. The Inner Piedmont belt underlies all of Greenville and Spartanburg Counties and parts of Laurens and Cherokee Counties. Included within the Kings Mountain belt are the middle portion of Laurens County, western Union County, and the western half of York County. Central Chester County, northern Fairfield County, and northwestern Richland County are underlain by the Carolina slate belt.

Saprolite in some areas is as much as 100 feet thick and serves as a medium for the collection of rainfall and recharge of ground water to fractures in the underlying rocks. The greatest water yields usually occur in areas where saprolite cover is the thickest. The number and size of fractures usually diminish with increasing depth and most wells do not exceed 300 feet. The supply of water from wells penetrating these rock units is reliable but limited and well yields are usually less than 50 gpm. Wells located on fracture zones in crystalline rock can produce 100 to 300 gpm, while other wells located in the same vicinity produce only 2 to 50 gpm. Topography can also have a significant impact on well yields. Valleys provide large areas for aquifer recharge and usually indicate areas of rock weakness where greater numbers of fractures occur. Wells located in valleys usually tend to have larger yields than wells in topographically high areas. The type of rocks encountered seem to have minor significance in determining well yields. At the present time, the complete ground-water potential is not known for much of this region and specific

aquifer or hydrogeologic units are not delineated.

Generally, ground water within the sub-basin is somewhat limited and is available in quantities suitable only for domestic use. The average yield of wells is about 20 gpm. Although some wells are as much as 600 feet deep, 75 percent of all wells recorded are less than 250 feet. The available data indicate optimum depths for maximum yields range from 100 to 250 feet. Ground water within the basin is derived from precipitation with generally less than a third of the average annual rain fall available to recharge the ground water. Recharge is affected by downward infiltration of rainfall as it moves to discharge areas of lower elevation in springs, rivers, lakes or wells.

U.S. Geological Survey records for Greenville County include 709 wells with yields up to 200 gpm obtained from the crystalline rock and saprolite (Koch, 1968). Wells drilled to obtain maximum yields range in depth from 150 to 300 feet. The average yield from these wells is 17 gpm, while wells drilled into schist and gneiss have average yields of 15 to 20 gpm.

Ground water in Spartanburg County occurs in fractured igneous and metamorphic rocks and saprolite within the Inner Piedmont belt. The average discharge from wells drilled to obtain maximum yields is 53 gpm (Siple and Cummings, 1970). From a total of 299 wells inventoried by the U.S. Geological Survey, 75 percent are less than 250 feet deep.

Well records in Newberry County are sparse, however, U.S. Geological Survey records include information concerning 32 wells ranging from 20 to 400 feet deep with yields of 2 to 75 gpm. An engineering report (Barbot, 1977) includes information on 20 wells used by the Newberry County Water and Sewer Authority. The wells discussed in this report are 240 to 350 feet deep and yield 10 to 150 gpm. The specific capacity of these wells is only about 0.3 gpm/ft.

Data on 147 wells in York County indicate a range in well yields from 3 to 300 gpm and average about 50 gpm (Butler and Siple, 1966). U.S. Geological Survey records for Laurens County include 49 wells with recorded depths ranging from 34 to 563 feet and yields of 2 to 400 gpm.

In Cherokee County, fairly complete hydrologic data are available on 44 wells, concentrated mainly in the Gaffney-Blacksburg area. These wells range from 36 to 500 feet deep and yield 1 to 175 gpm.

Records available from the U.S. Geological Survey contain data on nine wells in the Broad River Sub-basin vicinity of Chester County. These wells range in depth from 60 to 500 feet. The yield per well ranges from 5 to 80 gpm.

Data for Fairfield County include information on 63 wells which range from 30 to 360 feet deep and yield 1 to 600 gpm.

Ground-water data are very limited in Union County although information concerning 18 wells is fairly complete. Wells located in the Jonesville vicinity, range in depth from 36 to 600 feet and yield 3 to 75 gpm.

The northwest portion of Richland County in the Broad River Sub-basin is underlain mostly by argillite of the



DRASTIC: A Standardized System for Evaluating Ground Water Pollution Potential Using Hydrogeologic Settings

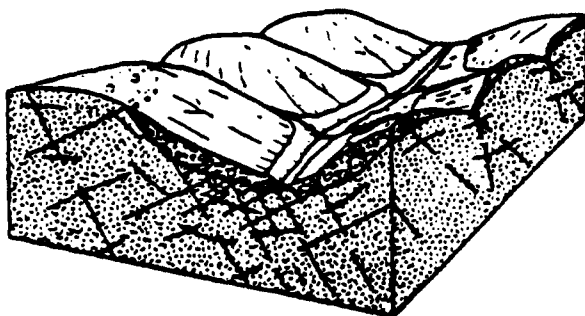
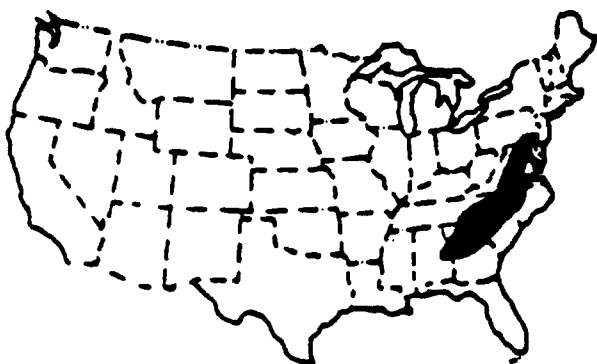
PB85-228

REPRODUCED BY
NATIONAL TECHNICAL
INFORMATION SERVICE
U.S. DEPARTMENT OF COMMERCE
SPRINGFIELD, VA. 22161



8. Piedmont Blue Ridge Region

(Thick regolith over fractured crystalline and metamorphosed sedimentary rocks)



The Piedmont and Blue Ridge region is an area of about 247,000 km² extending from Alabama on the south to Pennsylvania on the north. The Piedmont part of the region consists of low, rounded hills and long, rolling, northeast-southwest trending ridges whose summits range from about a 100 meters above sea level along its eastern boundary with the Coastal Plain to 500 to 600 m along its boundary with the Blue Ridge area to the west. The Blue Ridge is mountainous and includes the highest peaks east of the Mississippi. The mountains, some of which reach altitudes of more than 2,000 m, have smooth-rounded outlines and are bordered by well-graded streams flowing in relatively narrow valleys.

The Piedmont and Blue Ridge region is underlain by bedrock of Precambrian and Paleozoic age consisting

of igneous and metamorphosed igneous and sedimentary rocks. These include granite, gneiss, schist, quartzite, slate, marble, and phyllite. The land surface in the Piedmont and Blue Ridge is underlain by clay-rich, unconsolidated material derived from *in situ* weathering of the underlying bedrock. This material, which averages about 10 to 20 m in thickness and may be as much as 100 m thick on some ridges, is referred to as saprolite. In many valleys, especially those of larger streams, flood plains are underlain by thin, moderately well-sorted alluvium deposited by the streams. When the distinction between saprolite and alluvium is not important, the term regolith is used to refer to the layer of unconsolidated deposits.

The regolith contains water in pore spaces between rock particles. The bedrock, on the other hand, does not have any significant intergranular porosity. It contains water, instead, in sheetlike openings formed along fractures (that is, breaks in the otherwise "solid" rock). The hydraulic conductivities of the regolith and the bedrock are similar and range from about 0.001 to 1 m day⁻¹. The major difference in their water-bearing characteristics is their porosities, that of regolith being about 20 to 30 percent and that of the bedrock about 0.01 to 2 percent. Small supplies of water adequate for domestic needs can be obtained from the regolith through large-diameter bored or dug wells. However, most wells, especially those where moderate supplies of water are needed, are relatively small in diameter and are cased through the regolith and finished with open holes in the bedrock. Although, as noted, the hydraulic conductivity of the bedrock is similar to that of the regolith, bedrock wells generally have much larger yields than regolith wells because, being deeper, they have a much larger available drawdown.

All ground-water systems function both as reservoirs that store water and as pipelines (or conduits) that transmit water from recharge areas to discharge areas. The yield of bedrock wells in the Piedmont and Blue Ridge region depends on the number and size of fractures penetrated by the open hole and on the replenishment of the fractures by seepage into them from the overlying regolith. Thus, the ground-water system in this region can be viewed, from the standpoint of ground-water development, as a terrane in

which the reservoir and pipeline functions are effectively separated. Because of its larger porosity, the regolith functions as a reservoir which slowly feeds water downward into the fractures in the bedrock. The fractures serve as an intricate interconnected network of pipelines that transmit water either to springs or streams or to wells.

Recharge of the ground-water system occurs on the areas above the flood plains of streams, and natural discharge occurs as seepage springs that are common near the bases of slopes and as seepage into streams. With respect to recharge conditions, it is important to note that forested areas, which include most of the Blue Ridge and much of the Piedmont, have thick and very permeable soils overlain by a thick layer of forest litter. In these areas, even on steep slopes, most of the precipitation seeps into the soil zone, and most of this moves laterally through the soil in a thin, temporary, saturated zone to surface depressions or streams to discharge. The remainder seeps into the regolith below the soil zone, and much of this ultimately seeps into the underlying bedrock.

Because the yield of bedrock wells depends on the number of fractures penetrated by the well, the key element in selecting well sites is recognizing the relation between the present surface topography and the location of fractures in the bedrock. Most of the valleys, draws, and other surface depressions indicate the presence of more intensely fractured zones in the bedrock which are more susceptible to weathering and erosion than are the intervening areas. Because fractures in the bedrock are the principal avenues along which ground water moves, the best well sites appear to be in draws on the sides of the valleys of perennial streams where the bordering ridges are underlain by substantial thicknesses of regolith. Wells located at such sites seem to be most effective in penetrating open water-bearing fractures and in intercepting ground water draining from the regolith. Chances of success seem to be somewhat less for wells on the flood plains of perennial streams, possibly because the alluvium obscures the topographic expression of bedrock fractures. The poorest sites for wells are on the tops of ridges and mountains where the regolith cover is thin or absent and the bedrock is sparsely fractured.

As a general rule, fractures near the bedrock surface are most numerous and have the largest openings, so that the yield of most wells is not increased by drilling to depths greater than about 100 m. Exceptions to this occur in Georgia, South Carolina, and North Carolina and some other areas where water-bearing, low-angle faults or fractured zones are present at depths as great as 200 to 300 m.

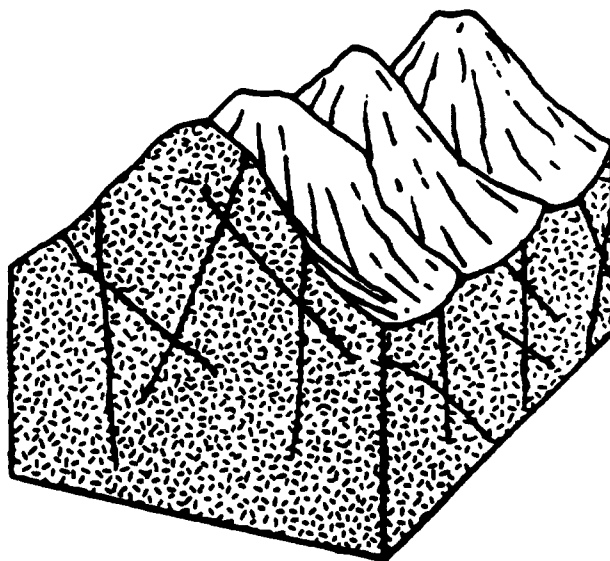
The Piedmont and Blue Ridge region has long been known as an area generally unfavorable for ground-

water development. This reputation seems to have resulted both from the small reported yields of the numerous domestic wells in use in the region that were, generally, sited as a matter of convenience and from a failure to apply existing technology to the careful selection of well sites where moderate yields are needed. As water needs in the region increase and as reservoir sites on streams become increasingly more difficult to obtain, it will be necessary to make more intensive use of ground water.

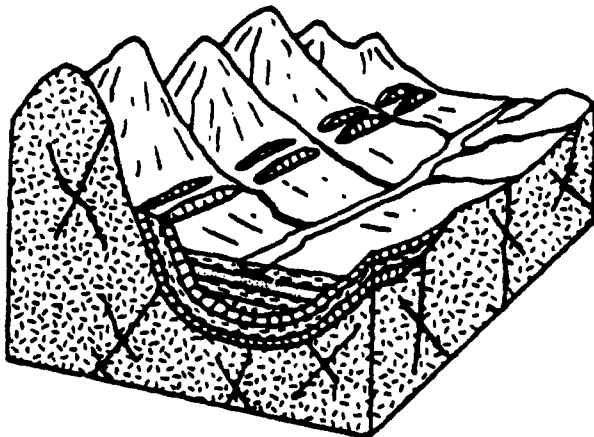
Piedmont and Blue Ridge

(8A) Mountain Slopes

This hydrogeologic setting is characterized by steep slopes on the side of mountains, a thin soil cover and fractured bedrock. Ground water is obtained primarily from the fractures in the bedrock which may be of sedimentary, metamorphic, or igneous origin but which is commonly metamorphic or igneous. The fractures provide localized sources of ground water and well yields are typically limited. Although precipitation is abundant, due to the steep slopes, thin soil cover and small storage capacity of the fractures, runoff is significant and ground-water recharge is only moderate. Water levels are extremely variable but are commonly deep.



tured, consolidated sedimentary rocks. Soil cover is usually thicker than on the mountain slopes and typically has weathered to a sandy loam or loam. Although precipitation is abundant, ground-water recharge is moderate due to the soil cover and slope. Water levels are typically moderately-deep although they are extremely variable. The mountain flanks serve as the recharge area for aquifers which are typically confined in adjacent valley areas.



Setting 8 C Mountain Flanks

Feature	Range	General		
		Weight	Rating	Number
Depth to Water Table	30-50	5	5	25
Net Recharge	2-4	4	3	12
Aquifer Media	Thin Bedded SS, LS, SH Sequences	3	6	18
Soil Media	Loam	2	5	10
Topography	6-12%	1	5	5
Impact Vadose Zone	Bedded LS, SS, SH	5	6	30
Hydraulic Conductivity	100-300	3	2	6

DRASTIC Index 108

Setting 8 C Mountain Flanks

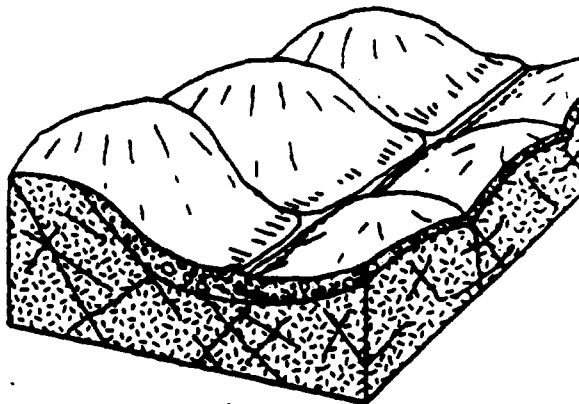
Feature	Range	Agricultural		
		Weight	Rating	Number
Depth to Water Table	30-50	5	5	25
Net Recharge	2-4	4	3	12
Aquifer Media	Thin Bedded SS, LS, SH Sequences	3	6	18
Soil Media	Loam	5	5	25
Topography	6-12%	3	5	15
Impact Vadose Zone	Bedded LS, SS, SH	4	6	24
Hydraulic Conductivity	100-300	2	2	4

Agricultural
DRASTIC Index 123

Piedmont and Blue Ridge

(8D) Thick Regolith

This hydrogeologic setting is characterized by moderate to low slopes covered by thick regolith and underlain by fractured bedrock of igneous, sedimentary, or metamorphic origin. The regolith is typically clay-rich but may also serve as a source of ground water for low-yield wells. This regolith functions as a reservoir for ground-water recharge to the bedrock which is in direct hydraulic connection with the overlying regolith. The bedrock typically yields larger amounts of ground water than the regolith when the well intersects fractures in the bedrock.



Setting 8 D Thick Regolith

Feature	Range	General		
		Weight	Rating	Number
Depth to Water Table	5-15	5	9	45
Net Recharge	4-7	4	6	24
Aquifer Media	Weathered Mets./lg.	3	4	12
Soil Media	Clay Loam	2	3	6
Topography	6-12%	1	5	5
Impact Vadose Zone	Silt/Clay	5	1	5
Hydraulic Conductivity	1-100	3	1	3

DRASTIC Index 100

U.S. DEPARTMENT OF COMMERCE
L. RICHARD H. HUGHES, Secretary

WEATHER B
F. W. RECHERDER

TECHNICAL PAPER NO. 40

RAINFALL FREQUENCY ATLAS OF THE UNITED STATES

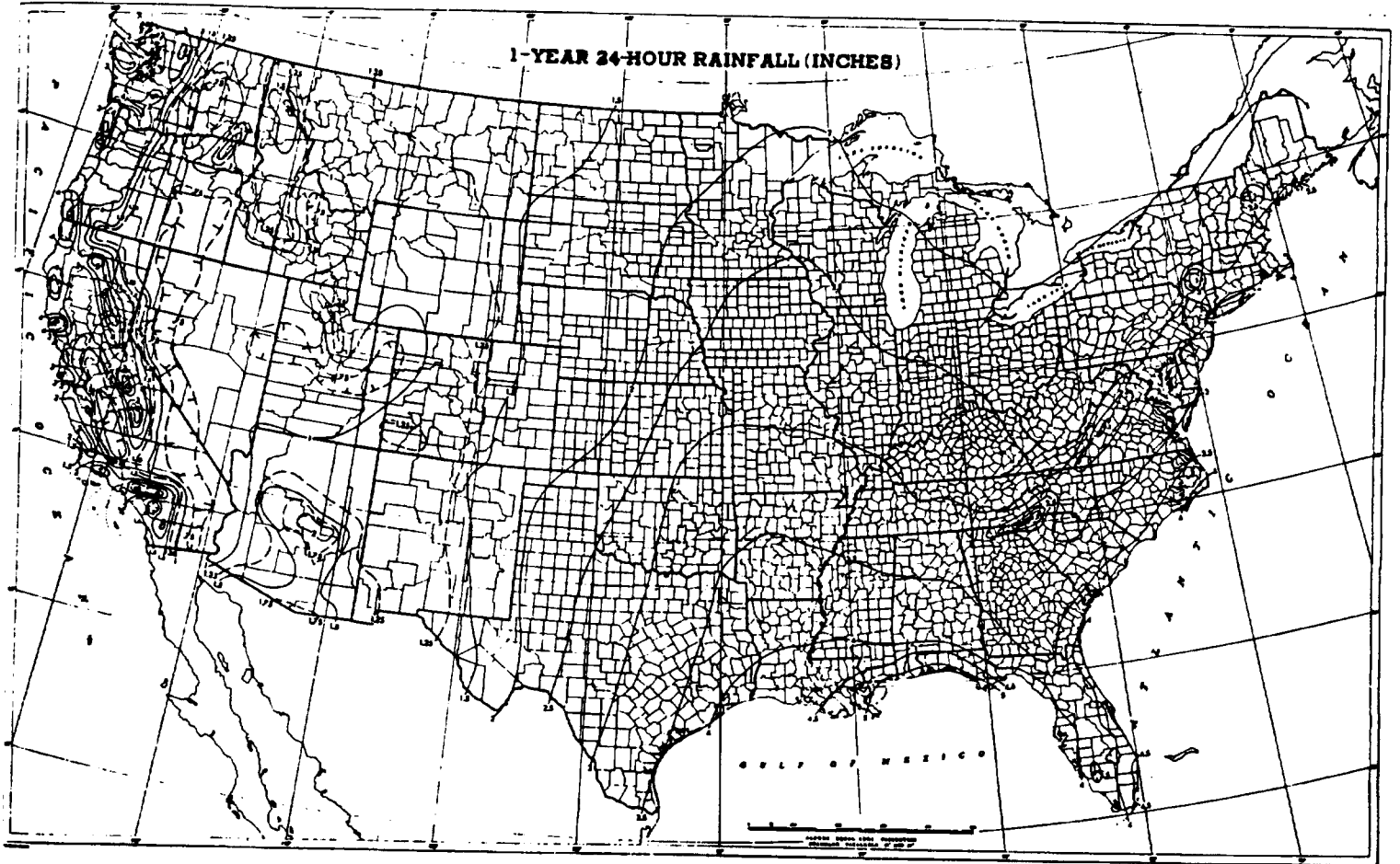
**for Durations from 30 Minutes to 24 Hours and
Return Periods from 1 to 100 Years**

Prepared by
DAVID M. HERSHFIELD
Cooperative Studies Section, Hydrologic Services Division
for
Engineering Division, Soil Conservation Service
U.S. Department of Agriculture



PROPERTY OF
FIT IV

1-YEAR 24-HOUR RAINFALL (INCHES)





LEVEL

NOTEBOOK NO. 311

F4-679

Monsanto Textiles

TDD # F4-8801-30

Blacksburg, South Carolina

Project Mgr: Terri Higgins

LOGBOOK REQUIREMENTS
REVISED - DECEMBER 18, 1986

NOTE: ALL LANGUAGE SHOULD BE FACTUAL AND OBJECTIVE

1. Record on front cover of the Logbook:

TDD No.
Site Name
Site Location
Project Manager

2. All entries are made using ink.
3. Statement of Work Plan discussion and distribution to field team with team member signatures.
4. Sign and date each page.
5. A single line is drawn through error. Date and initial each correction.
6. Report weather conditions.
7. Provide general site description and remarks.
8. Sample data or reference to sample sheets:

Date
Time
Record calibration of any instruments used
Sample location (Station # and brief description)
Sample designation (grab or composite)
Sample type (water, soil, etc.)
Sample analyses and preservatives (VOA, metals, etc.)
Sample identification #
Tag #
Sampler's name
In situ field measurements

9. Maintain photo log by completing the stamped information at the end of the logbook.
10. If no site representative is on hand to accept the receipt for samples an entry to that effect must be placed in the logbook.

Work Plan has been read by and is understood by the following: Fit III personnel:

Bob Tolford: *[Signature]*

Keith Grezlik: *[Signature]*

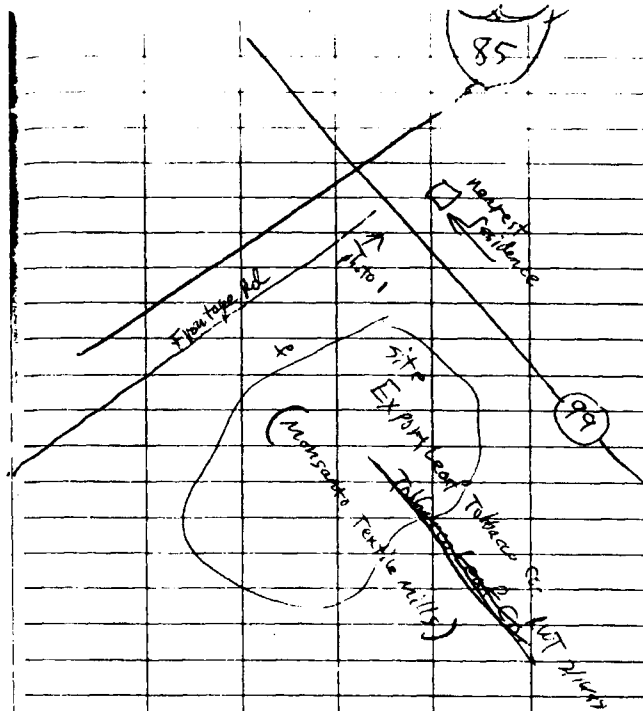
000001

1-12-88 2-16-88 1400

met Mr. Dick Robinson of the Public Works Dept. in Gaffney. He said to go to The City Mtd. in Blacksburg to meet with Mr. Reed Lowe who will be able to supply us with water line information. Mr. Robinson told us that the Gaffney Public Works Dept. obtains their water from two sources, one, an intake on the Broad River, also, an intake on Lake Whelchel. Both are outside the 4 mile radius of concern.

14:36

met with Reed Love of Blacksburg.
He showed us maps showing water
distribution lines. He said that it is a
city ordinance that anyone in the city
must be on the public water supply system.
Their water is provided ^{for them} by the City
of Gaffney's Public Works Dept.



000004

000005

Sub. 101

7-16-83 1500

met with Mayor W.W. McCarter of
Grover, N.C. He gave us a city map and
marked the location of their public supply wells.
Their water system ^{has} serves 280 connections.
Their wells are between 200' to 300' deep.

00000000

00000000

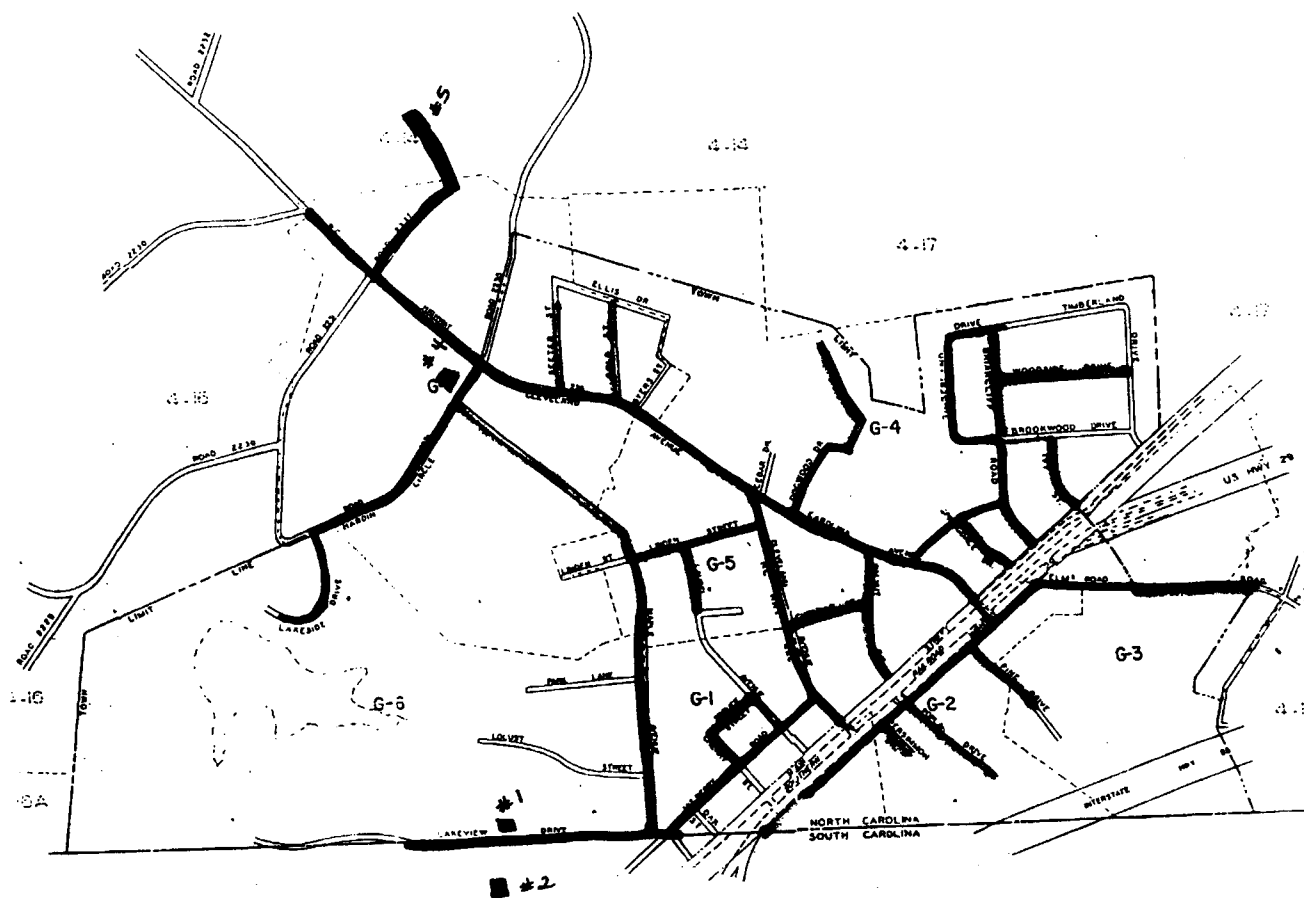
Reference

#7

OVERSIZED

DOCUMENT

MAP



INDEX MAP
OF
GROVER
CLEVELAND COUNTY, NORTH CAROLINA
GRAPHIC SCALE

6" line
2" line
city limits
4" line
wells marked #1-5

NUS CORPORATION AND SUBSIDIARIES**TELECON NOTE****CONTROL NO.****DATE:** May 13, 1988**TIME:** 1020**DISTRIBUTION:**

Monsanto Textiles Company
F4-8801-30

BETWEEN: Mr. Reed Love, Town
Manager**OF:** Blacksburg S. C.**PHONE:** (803) 839-2332**AND:** Jerri Higgins: NUS FIT 4**DISCUSSION:**

Mr. Love confirmed the fact that the Blacksburg water intake and treatment plant had been shut down. The town of Blacksburg had originally planned to modernize the plant, but has since decided that it is more cost effective to continue master-metering water from Gaffney. There are no plans to reopen the Blacksburg plant.

Jerri Higgins 5/27/88

OVERSIZED

DOCUMENT

MAP

REGION: 04
STATE: SC

U.S. ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF EMERGENCY AND REMEDIAL RESPONSE
C E R C L A

PAGE: 225
RUN DATE: 05/05/24
RUN TIME: 12:10:29

M.2 - SITE MAINTENANCE FORM

* ACTION: *

EPA ID: SCD001700863

SITE NAME: MONSANTO TEXTILES CO.

SOURCE: R

STREET: HWY I-85 (P O BOX 165)

CONG DIST: 05

CITY: BLACKSBURG

ZIP: 29702

CNTY NAME: GREENVILLE

CNTY CODE: 045

LATITUDE: 35/07/18.0 LONGITUDE: 081/30/54.0

SMBA: HYDRO UNIT: 03050105

INVENTORY IND: Y REMEDIAL IND: Y REMOVAL IND: N FED FAC IND: N

NPL IND: N NPL LISTING DATE: NPL DELISTING DATE:

APPROACH: SITE CLASS:

SITE/SPILL IDS:

RPM NAME: RPM PHONE: - -

DIOXIN TIER: REG FLD1: REG FLD2:

RESP TERM: PENDING (X) NO FURTHER ACTION ()

PENDING () NO FURTHER ACTION ()

ENF DISP: NO VIABLE RESP PARTY () VOLUNTARY RESPONSE ()

ENFORCED RESPONSE () COST RECOVERY ()

SITE DESCRIPTION:

REGION: 04
STATE: SC

U.S. ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF EMERGENCY AND REMEDIAL RESPONSE
C E R C L A

PAGE: 226
RUN DATE: 05/08/24
RUN TIME: 12:18:29

M.2 - ALIAS/ALIAS LOCATION MAINTENANCE FORM

* ACTION: *

SITE: MONSANTO TEXTILES CO.

EPA ID: SCD001700863 ALIAS SEQ NO: 01

ALIAS NAME: BLACKBERRY VALLEY RD.

SOURCE: R

ALIAS LOCATION

* ACTION: *

CONTIGUOUS PORTION OF SITE? C

STREET: BLACKBERRY VALLEY RD

CONG DIST: 04

CITY: GREENVILLE

ST: SC ZIP: 29702

CNTY NAME: GREENVILLE

CNTY CODE: 045

LATITUDE: 35/07/18.0 LONGITUDE: 081/30/54.0

SMSA: HYDRO UNIT: 03050105

ALIAS DESCRIPTION:

REGION: 04
STATE: SC

U.S. ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF EMERGENCY AND REMEDIAL RESPONSE
C E R C L A

PAGE: 227
RUN DATE: 05/05/24
RUN TIME: 12:18:29

M.2 - PROGRAM MAINTENANCE FORM

ACTIONS

SITE: MONSANTO TEXTILES CO.

EPA ID: SCD001700863 PROGRAM CODE: H01 PROGRAM TYPE:

PROGRAM QUALIFIER: ALIAS LINK

PROGRAM NAME: SITE EVALUATION

DESCRIPTION:

REGION: 04
STATE: SC

U.S. ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF EMERGENCY AND REMEDIAL RESPONSE
C E R C L A

PAGE: 228
RUN DATE: 05/05/84
RUN TIME: 12:18:29

M,2 - EVENT MAINTENANCE FORM

ACTION:

SITE: MONSANTO TEXTILES CO.
PROGRAM: SITE EVALUATION

EPA ID: SCD001700863 PROGRAM CODE: H01 EVENT TYPE: D61

FMS CODE: EVENT QUALIFIER: EVENT LEAD: E

EVENT NAME: DISCOVERY STATUS:

DESCRIPTION:

ORIGINAL

CURRENT

ACTUAL

START: START: START: 05/05/84 05/05/84 05/05/84

COMP: COMP: COMP: 78/11/01 78/11/01 78/11/01

NO COMMENT:

NO COMMENT:

CDOP AGR: AMENDMENT: STATUS: STATE:

REGION: 04
STATE: SC

U.S. ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF EMERGENCY AND REMEDIAL RESPONSE
C E R C L A

PAGE: 229
RUN DATE: 05/05/24
RUN TIME: 12:18:29

M.2 - COMMENT MAINTENANCE FORM

SITE: MONSANTO TEXTILES CO.

EPA ID: SCD001700863

CUM
EPA COMMENT

ACTION

001 CONTACT: EASLEY, JOHN SUPT MAINT 80

J-839-2302.

July 19, 1982

Mr. John D. Easley
Monsanto Textiles Company
P. O. Box 165
Blacksburg, SC 29702

RE: Industrial Landfill Permit #IWP-179
Cherokee County

Dear Mr. Easley:

An inspection of the above referenced site was made on June 30, 1982 and it is the opinion of this office that the site has been properly closed and is no longer being use. In order to remove this site from our active files, this office is requesting that the permit be returned.

This does not relieve Monsanto Corporation of its responsibility of maintaining this site in the manner prescribed in the enclosed Regulation 61-61.

If you have any questions, please call me at 758-5681.

Sincerely,

J. Keith Lindler
Facilities Evaluation Section
Bureau of Solid and Hazardous
Waste Management

JKL:dhs

cc: William L. Buffington, Jr.

Enclosure

Department of
Health and
Environmental
Control

RECEIVED

NOV 20 1981

S. C. D. H. E. C.
SPARTANBURG

William M. Wilson, Chairman
J. Lorin Mason, Jr., M.D., Vice-Chairman
Leonard W. Douglas, M.D., Secretary
Oren L. Brady, Jr.
Moses H. Clarkson, Jr.
Gerald A. Kaynard
Barbara P. Nuessle

COMMISSIONER
Robert S. Jackson, M.D.
2600 Bull Street
Columbia, S.C. 29201

November 19, 1981

TO: William L. Buffington, Jr.
Appalachia III District

THROUGH: *James R. Ullery*
James R. Ullery, P.E., Manager
Waste Identification and Evaluation Section

FROM: Debbie S. Browning *D. Browning*
Waste Identification and Evaluation Section

In order to update the list of permitted facilities I need
a complete list of the active permitted facilities which you inspect.
The list should include both domestic and industrial sites.

DSB:dhs

MONTHLY:

1- WELLFORD	DWP-078	DMSL	
2- CROFT	DWP-002	DMSL	
	DWP-098	New Section	<i>NOT IN USE YET.</i>
3- PALMETTO	DWP-092	DMSL	
4- UNION	DWP-049	DMSL	
5- CHEROKEE	DWP-029	DMSL	
6- GAFFNEY INERT	DWP-908	DMIN	
7- GARRETT INERT	IWP-184	DMIN/CL	

QUARTERLY:

1- KOHLER CO	IWP 071	IDCL	
2- NORTH AMERICAN ROCKWELL	- DRAPER	IWP 103	IDCL
3- DUKE POWER	IWP 142	IDIN	
4- SOUTHERN WOOD	PIEDMONT	IWP 048	IDCL
5- C S TANNER	IWP 107	IDHZ	
6- MONSANTO	IWP 179	IDIN	<i>- ALMOST CLOSED -</i>

Buff
11/23/81

T-75112

Monsanto

MONSANTO TEXTILES COMPANY

P. O. Box 185
Blacksburg, South Carolina 29702
Phone: (803) 839-2302

February 13, 1981

Mr. Hartsill W. Truesdale, P.E., Director
Division of Engineering and Program Development
Bureau of Solid and Hazardous Waste Management
South Carolina Department of Health and
Environmental Control
2600 Bull Street
Columbia, South Carolina 29201


Dear Hartsill:

John Roberts and I were pleased that Mike Jarrett had made arrangements for us to spend some time with you when we were in Columbia last Friday.

We appreciated the opportunity to explain John's responsibilities with Monsanto.

Thank you for answering our questions so frankly, and we are looking forward to working with you in the future.

Sincerely,


Walter E. Cavell
Plant Manager

WEC/pp

cc: Mr. John T. Roberts
Monsanto Textiles Company
P. O. Box 1057
Greenwood, South Carolina 29646



a unit of Monsanto Company

FEB 18 1981

South Carolina
Department of
Health and
Environmental
Control

BOARD
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J. Lorin Mason, Jr., M.D., Vice-Chairman
I. DeQuincey Newman, Secretary
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George G. Graham, D.D.S.
Michael W. Mims
Barbara P. Nuessle

COMMISSIONER
Robert S. Jackson, M.D.
2600 Bull Street
Columbia, S. C. 29201

February 4, 1981

TO: Hartsill W. Truesdale, P.E., Director *HWT*
Division of Engineering and Program Development

FROM: C. Allen McEntire, Environmental Engineer *C. Allen McEntire*
Facilities Evaluation Section

RE: Monsanto Textiles Company
Cherokee County

I have reviewed the permit application from the above referenced facility and have found it to be in compliance with State regulations regarding operation of an industrial landfill.

CAM:dhs

Monsanto

MONSANTO TEXTILES COMPANY
P. O. Box 165
Blacksburg, South Carolina 29702
Phone: (803) 839-2302

January 27, 1981

Mr. C. Allen McEntire
Facilities Evaluation Section
Bureau of Solid and Hazardous
Waste Management
2600 Bull Street
Columbia, South Carolina 29201

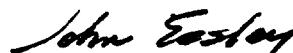
Dear Mr. McEntire:

RE: Cellulosic Permit Application - Cherokee County
and your letter dated 12/19/80

We have considered the feasibility of utilizing the Cherokee County Landfill as an alternative solution to waste disposal, but feel that our existing landfill is the most economical and practical method. Please continue to evaluate our permit application.

If you have additional questions, please let me know.

Sincerely,



John D. Easley
Supt., Maintenance Support

JDE/pp



a unit of Monsanto Company

JAN 29 1981

December 19, 1980

Mr. John D. Easley
Monsanto Textiles Company
P. O. Box 165
Blacksburg, SC 29702

RE: Cellulosic permit application - Cherokee County

Dear Mr. Easley:

This office is currently reviewing the additional information submitted to this office for a permit to dispose of cellulosic wastes on plant property in Cherokee County. From the location maps submitted to this office, it has been noted that the plant is in close proximity (\angle 10 miles) of the existing Cherokee County Landfill. It would appear that the most cost effective solution to the problem at your facility would be to utilize the existing nearby sanitary landfill. However, the Department recognizes that circumstances could exist which could eliminate this as a possible disposal option. Therefore, this office will continue to evaluate this permit application.

After considering the economic feasibility of utilizing the existing landfill as opposed to operating your own site, please contact this office as to the direction you prefer to take.

If you have any further questions, please feel free to contact me at 758-5681.

Sincerely,

C. Allen McEntire
Facilities Evaluation Section
Bureau of Solid And Hazardous
Waste Management

CAM:dhs

Monsanto

MONSANTO TEXTILES COMPANY
P. O. Box 165
Blacksburg, South Carolina 29702
Phone: (803) 839-2302

November 24, 1980

Mr. C. Allen McEntire
Environmental Engineer
Facilities Evaluation Section
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

Dear Mr. McEntire:

In your letter of October 10, 1980, you requested additional information on our landfill permit application. The information you required for further evaluation included the following:

1. Cross section of a typical trench.
2. A topographic map.

Please find attached the information you requested. The trench cross section is added on our Drawing C1100, Revision 1. The topographic map is a copy from a soil conservation map. I have been working with Bill Buffington, out of your Spartanburg office, on this information in order to ensure that it will satisfy your requirements.

If I can be of further assistance, please let me know.

Sincerely,



John D. Easley
Supt., Maintenance Support

JDE/pp

Attachments



a unit of Monsanto Company

RECEIVED
S.C. DEPT. OF HEALTH
AND ENVIRONMENTAL CONTROL
NOV 26 1980

21

October 10, 1980

Mr. John D. Easley
Superintendent, Maintenance Support
Monsanto Textiles Company
P. O. Box 165
Blacksburg, SC 29702

RE: Application for Permit to Construct an Inert and Cellulosic
Landfill - Monsanto Company - Blacksburg - Cherkokee County

Dear Mr. Easley:

This is to acknowledge receipt of the referenced permit application and to note the following additional information which is required for further evaluation:

1. Cross sections of a typical trench
2. A topographic map

Thank you for your cooperation in this matter. Please feel free to call me if you have any questions.

Sincerely,

C. Allen McEntire
Environmental Engineer
Facilities Evaluation Section
Division of Engineering and
Program Development

CAM:dhs

South Carolina
Department of
Health and
Environmental
Control

T-7 Allen
BOARD
William M. Wilson, Chairman
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George G. Graham, D.D.S.
Michael W. Mims
Barbara P. Nuessle

COMMISSIONER
Robert S. Jackson, M.D.
2600 Bull Street
Columbia, S. C. 29201

Environmental Quality Control
2084 East Main Street
Spartanburg, South Carolina 29302

September 8, 1980

Mr. John D. Easley
Superintendent, Maintenance Support
Monsanto Textiles Company
Post Office Box 165
Blacksburg, South Carolina 29702

Dear Mr. Easley:

This is to confirm that your correspondence of September 2, 1980 was received by this office on September 4, 1980.

This correspondence has been forwarded to our Columbia office for final approval.

If you should have any questions, kindly contact me at 582-5681.

Sincerely,

William L. Buffington Jr.
William L. Buffington, Jr., R.S.
District Solid Waste Consultant
Environmental Quality Control
Appalachia III District

WLB,jr./dlk

cc: ✓ Hartsill Truesdale

RECEIVED

SEP 9 1980

S. C. DEPT. OF HEALTH AND
ENVIRONMENTAL CONTROL
SOLID WASTE

S. C. DEPT. OF HEALTH
AND ENVIRONMENTAL CONTROL
ENVIRONMENTAL QUALITY CONTROL
J. MARION SIMS BUILDING
COLUMBIA, SOUTH CAROLINA 29201

TO file
CHEROKEE CO

DATE 7 May 1980		COUNTY Cherokee
PROJECT J. Earley - Insect disposal		
LOCATION Cherokee		
WATER	SEWAGE	OTHER Solid Waste
PRESENT AT SITE NAME		TITLE
J. Earley -		

THE FOLLOWING WAS NOTED:

On 7 May 1980, since I was in Blacksburg on other matters, I stopped by to discuss Insect disposal with J. Earley.

Mr. Earley and I discussed the Insect Regs. and he will apply for a Insect disposal permit as soon as he can gather the information together.

White - file
DET. worksheets
DAP

FIELD INSPECTION REPORT

SIGNED

William L. Ruffin
Dir. of Health

RECEIVED

DEC 18 1979

S. C. D. H. E. C.
SPARTANBURG

Monsanto

MONSANTO TEXTILES COMPANY
P. O. Box 185
Blacksburg, South Carolina 29702
Phone: (803) 839-2302

M-Bell
File

Cherokee
County

December 14, 1979

Mr. William L. Buffington, Jr.
Environmental Quality Manager
Appalachia III District
2084 East Main Street Extension
Spartanburg, South Carolina 29302

Dear Mr. Buffington:

As we discussed during your visit, the Monsanto Textiles Company, Blacksburg plant, is not a manufacturing facility and, therefore, does not generate any process waste. The waste that was referred to in your computer printout sheets in the Blacksburg City Dump, Cherokee County Dump and Cherokee County Landfill consisted of garbage and trash from the plant canteen, plastic bags from bobbin wrappings, corrugated cardboard cartons, and pasteboard tubes (yarn bobbins). The area referred to as the "Blackfield" on your computer printout sheets is located on Monsanto property and should read "Backfield." The waste disposed of in this area consists of scrap wood, cardboard drums, pasteboard tubes (yarn bobbins), etc. These items are too bulky to place in the "compactor/dumpster" we now use.

I trust the above satisfactorily answers the questions you raised during our discussion in my office on Tuesday, December 12, 1979.

Sincerely,

Richard Baines

J. R. Baines
Supervisor,
Personnel & Services



a unit of Monsanto Company

WHITE-CENTRAL OFFICE

CANARY-CENTRAL OFFICE

PINK-INSPECTOR

GOLDENROD-OPERATOR

SOUTH CAROLINA DEPARTMENT OF HEALTH & ENVIRONMENTAL CONTROL
SOLID WASTE DISPOSAL SITE INSPECTION SHEET

TRANSACTION CODE()

(A=Add, C=Change, D=Delete)

RECORD ID SC/ IWP 179/ 810520
(State Code, Permit #, Inspection Date)02 CALL NUMBER 16403 FACILITY MONSANTO - ~~WATERBURY~~04 ADDRESS P.O. Box 165 (Johnny Toney)05 CITY BLACKSBURG, S.C. 2970214 OPER. METHOD I 15 OPER. TYPE IDIN 16 FILL DEPTH MAX. FT. --- WORKING FACE (FT) 17 L --- 18 W ---

MARK EACH ITEM WHERE PROBLEM EXISTS

- 19 OPERATIONAL CONTROL ()
20 ALL WEATHER ACCESS ROADS ()
21 CONTROLLED ACCESS ()
22 EQUIPMENT ()
23 DAILY & INTERIM COVER ()
24 SURFACE DRAINAGE ()
25 WORKING FACE ()
26 OPEN BURNING PROHIBITED ()
27 LEACHATE CONTROL ()
28 STREAM QUALITY CONTROL ()
29 UNAUTHORIZED WASTE PROHIBITED ()
30 SCAVENGING PROHIBITED ()
31 VECTOR CONTROL ()

- 32 FINAL COVER, GRADING ()
33 STABILIZATION ()
34 BULKY OBJECT HANDLING ()
35 MONITOR WELLS ()
36 ODOR CONTROL ()
37 DUST CONTROL ()
38 FIRE PROTECTION ()
39 STRAY ANIMALS PROHIBITED ()
40 BLOWING LITTER CONTROL ()
41 AFTER HOURS CONT. MAINT. ()
42 UNLOADING CONTROLLER ()
43 EMPLOYEE FACILITIES ()
44 DAILY RECORDS ()
45 APPROVED PLANS ()

RECOMMENDATIONS AND COMMENTS (COMMENTS ON ALL UNSATISFACTORY ITEMS - SHOW DATA ELEMENT #)

Site looks good. No problems apparent at time of
this inspection -

The signature at the bottom of this report certifies that the inspector has personally checked each item and has answered according to the true condition existing at time of contract.

William E. Duthington Jr. District Solid Waste Consultant
INSPECTOR'S SIGNATURE TITLE

Date 20 MAY 1981 Time 2:30 (PM)

I certify that the inspector has given me a copy of this report and has explained all deficiencies noted.

Johnny E. Toney
OWNER/OPERATOR SIGNATURE TITLE

A

TE-CENTRAL OFFICE

CANARY-CENTRAL OFFICE

PINK-INSPECTOR

GOLDENROD-OPERATOR

SOUTH CAROLINA DEPARTMENT OF HEALTH & ENVIRONMENTAL CONTROL
SOLID WASTE DISPOSAL SITE INSPECTION SHEET

TRANSACTION CODE()

(A=Add, C=Change, D=Delete)

02 CALL NUMBER 164

03 FACILITY

04 ADDRESS

05 CITY

14 OPER.

METHOD 1

15 OPER.

TYPE IDIN

16 FILL DEPTH

MAX. FT. —

WORKING

FACE (FT)

17 L —

18 W —

RECORD ID SC WLP 179 810810
(State Code, Permit #, Inspection Date)

MARK EACH ITEM WHERE PROBLEM EXISTS

19 OPERATIONAL CONTROL ()

20 ALL WEATHER ACCESS ROADS ()

21 CONTROLLED ACCESS ()

22 EQUIPMENT ()

23 DAILY & INTERIM COVER ()

24 SURFACE DRAINAGE ()

25 WORKING FACE ()

26 OPEN BURNING PROHIBITED ()

27 LEACHATE CONTROL ()

28 STREAM QUALITY CONTROL ()

29 UNAUTHORIZED WASTE PROHIBITED ()

30 SCAVENGING PROHIBITED ()

31 VECTOR CONTROL ()

32 FINAL COVER, GRADING ()

33 STABILIZATION ()

34 BULKY OBJECT HANDLING ()

35 MONITOR WELLS ()

36 ODOR CONTROL ()

37 DUST CONTROL ()

38 FIRE PROTECTION ()

39 STRAY ANIMALS PROHIBITED ()

40 BLOWING LITTER CONTROL ()

41 AFTER HOURS CONT. MAINT. ()

42 UNLOADING CONTROLLER ()

43 EMPLOYEE FACILITIES ()

44 DAILY RECORDS ()

45 APPROVED PLANS ()

RECOMMENDATIONS AND COMMENTS (COMMENTS ON ALL UNSATISFACTORY ITEMS - SHOW DATA ELEMENT #)

Site looks good. No problems apparent
at the time of this inspection

The signature at the bottom of this report certifies that the inspector has personally checked each item and has answered according to the true condition existing at time of contract.

William L. Burchfield, JR. DISTRICT SOLID WASTE
INSPECTOR'S SIGNATURE TITLE CONSULTANT

Date

10 August 1981

Time

12:30

(AM/PM)

I certify that the inspector has given me a copy of this report and has explained all deficiencies noted.

John Toney Sr. Vice President TNC Doctor
OWNER OR OPERATOR SIGNATURE TITLE

A

WHITE-CENTRAL OFFICE

CANARY-CENTRAL OFFICE

PINK-INSPECTOR

GOLDENROD-OPERATOR

*Phone 1-800*SOUTH CAROLINA DEPARTMENT OF HEALTH & ENVIRONMENTAL CONTROL
SOLID WASTE DISPOSAL SITE INSPECTION SHEET

TRANSACTION CODE()

(A=Add, C=Change, D=Delete)

RECORD ID SC/TWP179/811210
(State Code, Permit #, Inspection Date)02 CALL NUMBER 164

03 FACILITY

04 ADDRESS

05 CITY

14 OPER.

METHOD T

15 OPER.

TYPE IDLN

16 FILL DEPTH

MAX. FT.

WORKING

FACE (FT)

17 L 18 W

MARK EACH ITEM WHERE PROBLEM EXISTS

19 OPERATIONAL CONTROL ()

20 ALL WEATHER ACCESS ROADS ()

21 CONTROLLED ACCESS ()

22 EQUIPMENT ()

23 DAILY & INTERIM COVER ()

24 SURFACE DRAINAGE ()

25 WORKING FACE ()

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28 STREAM QUALITY CONTROL ()

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31 VECTOR CONTROL ()

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33 STABILIZATION ()

34 BULKY OBJECT HANDLING ()

35 MONITOR WELLS ()

36 ODOR CONTROL ()

37 DUST CONTROL ()

38 FIRE PROTECTION ()

39 STRAY ANIMALS PROHIBITED ()

40 BLOWING LITTER CONTROL ()

41 AFTER HOURS CONT. MAINT. ()

42 UNLOADING CONTROLLER ()

43 EMPLOYEE FACILITIES ()

44 DAILY RECORDS ()

45 APPROVED PLANS ()

RECOMMENDATIONS AND COMMENTS (COMMENTS ON ALL UNSATISFACTORY ITEMS - SHOW DATA ELEMENT #)

Site looks good -Prior to closing - please request a
final inspection of closed landfill site.

The signature at the bottom of this report certifies that the inspector has personally checked each item and has answered according to the true condition existing at time of contract.

William L. Driftwood Jr.
INSPECTOR'S SIGNATUREOSHC
TITLE

Date

10 December 1981

Time

11:30

(AM/PM)

I certify that the inspector has given me a copy of this report and has explained all deficiencies noted.

Johnny Toney Senior
OWNER OR OPERATOR SIGNATURE

TITLE

WHITE-CENTRAL OFFICE

CANARY-CENTRAL OFFICE

PINK-INSPECTOR

GOLDENROD-OPERATOR

SOUTH CAROLINA DEPARTMENT OF HEALTH & ENVIRONMENTAL CONTROL
SOLID WASTE DISPOSAL SITE INSPECTION SHEET

TRANSACTION CODE()

(A=Add, C=Change, D=Delete)

02 CALL NUMBER 16203 FACILITY 111111111104 ADDRESS P.O. Box 16505 CITY Blacksburg, SC.RECORD ID SC 1111111111 82 03 08
(State Code, Permit #, Inspection Date)

14 OPER.

METHOD I

15 OPER.

TYPE IDIN

16 FILL DEPTH

MAX. FT. —

WORKING

FACE (FT) 17 L — 18 W —

MARK EACH ITEM WHERE PROBLEM EXISTS

19 OPERATIONAL CONTROL ()

20 ALL WEATHER ACCESS ROADS ()

21 CONTROLLED ACCESS ()

22 EQUIPMENT ()

23 DAILY & INTERIM COVER ()

24 SURFACE DRAINAGE ()

25 WORKING FACE ()

26 OPEN BURNING PROHIBITED ()

27 LEACHATE CONTROL ()

28 STREAM QUALITY CONTROL ()

29 UNAUTHORIZED WASTE PROHIBITED ()

30 SCAVENGING PROHIBITED ()

31 VECTOR CONTROL ()

32 FINAL COVER, GRADING ()

33 STABILIZATION ()

34 BULKY OBJECT HANDLING ()

35 MONITOR WELLS ()

36 ODOR CONTROL ()

37 DUST CONTROL ()

38 FIRE PROTECTION ()

39 STRAY ANIMALS PROHIBITED ()

40 BLOWING LITTER CONTROL ()

41 AFTER HOURS CONT. MAINT. ()

42 UNLOADING CONTROLLER ()

43 EMPLOYEE FACILITIES ()

44 DAILY RECORDS ()

45 APPROVED PLANS ()

RECOMMENDATIONS AND COMMENTS (COMMENTS ON ALL UNSATISFACTORY ITEMS - SHOW DATA ELEMENT #)

Site looks good - no problems at time of this inspection.

- Plant closed - at the end of March - Company will contact.

The signature at the bottom of this report certifies that the inspector has personally checked each item and has answered according to the true condition existing at time of contract.

William L. Burdette, Jr. INSPECTOR

INSPECTOR'S SIGNATURE

TITLE

Date 8 March 1982Time 1:30 (AM/PM)

I certify that the inspector has given me a copy of this report and has explained all deficiencies noted.

Johnny Toney OWNER OR OPERATOR

OWNER OR OPERATOR SIGNATURE

TITLE

White-Central

Canary-Central

Pink-Inspector

Goldenrod-Operator

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL
SOLID WASTE DISPOSAL SITE INSPECTION SHEET

CALL NUMBER _____

 RECORD ID SC/ 100122/ 003081
 (State Code, Permit #, Inspection Date)

03 FACILITY _____

04 ADDRESS _____

05 CITY _____

14 OPER. METHOD _____ OPER. TIME _____ FILL DEPTH MAX. FT. _____ WORKING FACE (FT) 17 L _____ 18 W _____

 1-Excellent 2-Satisfactory 3-Improvement Needed 4-Insufficient Data Or N/A
 5-Enforcement Needed Y - Yes N - No

Make one of the above entries for each of the following questions.

- | | |
|--|---|
| 19 Is the site being controlled through the use of signs? Y N 4 | 33 Control of leachate and/or silt into surface water is. [] |
| 20 Does facility have all weather access roads? Y N | 34 Prohibition of unauthorized waste is. [] |
| 21 If yes, the adequacy of the roads are. [] | 35 Prohibition of scavenging is. [] |
| 22 If no, how is site being operated in wet weather? [Respond in comment area] | 36 Control of vectors is. [] |
| 23 Is access to the site controlled? Y N | 37 The progressive application of final cover is. [] |
| 24 Condition of equipment is. [] | 38 Grading of final cover is. [] |
| 25 Application of daily cover is. [] | 39 Progressive stabilization of final cover is. [] |
| 26 The application of interim cover where needed is. [] | 40 The condition of monitoring wells are. [] |
| 27 Are diversion structures used to control surface water run-on or run-off? Y N | 41 Is dust being controlled? Y N |
| 28 If yes, the adequacy of the structures are. [] | 42 Fire protection equipment is. [] |
| 29 If no, how is surface water being controlled? [Respond in comment area] | 43 Prohibition of animals is. [] |
| 30 Is the working face being operated on an acceptable slope? Y N | 44 Control of litter is. [] |
| 31 Is there any evidence of open burning of solid waste? Y N | 45 Maintenance of after hours containers is. [] |
| 32 Control of leachate is. [] | 46 Is unloading controller needed? Y N |
| | 47 Are facilities provided for the employees? Y N |
| | 48 The operation of the facility as compared with the plans is. [] |

RECOMMENDATIONS AND COMMENTS

(COMMENTS REQUIRED ON ALL UNSATISFACTORY ITEMS-SHOW DATA ELEMENT NUMBER)

As of 1 July 1982, this plant is closed.

The landfill has been covered, graded and seeded with grass 1 1/2 weeks ago.

Site looks good. Will check later.

Request that permit be withdrawn.

The signature at the bottom of this report certifies that the inspector has personally checked each item and has answered according to the true condition existing at time of contact.

Harold S. Buffington Jr. ASWC
 Inspector's Signature Title

Date 31 June 1982 Time 11:15 (AM/PM)

I certify that the inspector has given me a copy of this report and has explained any deficiencies noted.

 Owner or Operator Signature Title

Goldenrod-Operator

Title

White-Central

Can. -Central

Pink-Inspector

Goldenrod-Operator

(1) 2

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL
SOLID WASTE DISPOSAL SITE INSPECTION SHEETCALL NUMBER 164RECORD ID SC 1WP 1291 66 3082
(State Code, Permit #, Inspection Date)

03 FACILITY Measboro

04 ADDRESS P.O. Box 165

05 CITY Blacksburg, South Carolina 29702

14 OPER. METHOD I OPER. TYPE LDIN FILL DEPTH MAX. FT. — WORKING FACE (FT) 17 L — 18 W —

1-Excellent 2-Satisfactory 3-Improvement Needed 4-Insufficient Data Or N/A
5-Enforcement Needed Y - Yes N - No

Make one of the above entries for each of the following questions.

- | | |
|--|---|
| 19 Is the site being controlled through the use of signs? Y N 4 | 33 Control of leachate and/or silt into surface water is. [] |
| 20 Does facility have all weather access roads? Y N | 34 Prohibition of unauthorized waste is. [] |
| 21 If yes, the adequacy of the roads are. [] | 35 Prohibition of scavenging is. [] |
| 22 If no, how is site being operated in wet weather? [Respond in comment area] | 36 Control of vectors is. [] |
| 23 Is access to the site controlled? Y N | 37 The progressive application of final cover is. [] |
| 24 Condition of equipment is. [] | 38 Grading of final cover is. [] |
| 25 Application of daily cover is. [] | 39 Progressive stabilization of final cover is. [] |
| 26 The application of interim cover where needed is. [] | 40 The condition of monitoring wells are. [] |
| 27 Are diversion structures used to control surface water run-on or run-off? Y N | 41 Is dust being controlled? Y N |
| 28 If yes, the adequacy of the structures are. [] | 42 Fire protection equipment is. [] |
| 29 If no, how is surface water being controlled? [Respond in comment area] | 43 Prohibition of animals is. [] |
| 30 Is the working face being operated on an acceptable slope? Y N | 44 Control of litter is. [] |
| 31 Is there any evidence of open burning of solid waste? Y N | 45 Maintenance of after hours containers is. [] |
| 32 Control of leachate is. [] | 46 Is unloading controller needed? Y N |
| | 47 Are facilities provided for the employees? Y N |
| | 48 The operation of the facility as compared with the plans is. [] |

RECOMMENDATIONS AND COMMENTS

(COMMENTS REQUIRED ON ALL UNSATISFACTORY ITEMS-SHOW DATA ELEMENT NUMBER)

As of 1 July 1982, this plant is closed.

The landfill has been covered, graded and seeded with grass (+ a week ago)

Site looks good. Will check later.

Request that permit be withdrawn.

The signature at the bottom of this report certifies that the inspector has personally checked each item and has answered according to the true condition existing at time of contact.

William R. Buffington, Jr. REGUL.
Inspector's Signature Title

Date 30 June 1982 Time 11:15 (AM/PM)

I certify that the inspector has given me a copy of this report and has explained any deficiencies noted.

A. Thompson
Owner or Operator Signature Title

WHITE-CENTRAL OFFICE

CANARY-CENTRAL OFFICE

PINK-INSPECTOR

GOLDENROD-OPERATOR

SOUTH CAROLINA DEPARTMENT OF HEALTH & ENVIRONMENTAL CONTROL
SOLID WASTE DISPOSAL SITE INSPECTION SHEET

TRANSACTION CODE()

(A=Add, C=Change, D=Delete)

RECORD ID SC 1 W P 1791 82 0308
(State Code, Permit #, Inspection Date)02 CALL NUMBER 16403 FACILITY Mossboro04 ADDRESS P.O. Box 165(Johnny Toney)05 CITY Blacksburg, SC2970214 OPER. METHOD I15 OPER. TYPE IDIN

16 FILL DEPTH

WORKING

MAX. FT. ---FACE (FT) ---17 L ---18 W ---

MARK EACH ITEM WHERE PROBLEM EXISTS

19 OPERATIONAL CONTROL ()

20 ALL WEATHER ACCESS ROADS ()

21 CONTROLLED ACCESS ()

22 EQUIPMENT ()

23 DAILY & INTERIM COVER ()

24 SURFACE DRAINAGE ()

25 WORKING FACE ()

26 OPEN BURNING PROHIBITED ()

27 LEACHATE CONTROL ()

28 STREAM QUALITY CONTROL ()

29 UNAUTHORIZED WASTE PROHIBITED ()

30 SCAVENGING PROHIBITED ()

31 VECTOR CONTROL ()

32 FINAL COVER, GRADING ()

33 STABILIZATION ()

34 BULKY OBJECT HANDLING ()

35 MONITOR WELLS ()

36 ODOR CONTROL ()

37 DUST CONTROL ()

38 FIRE PROTECTION ()

39 STRAY ANIMALS PROHIBITED ()

40 BLOWING LITTER CONTROL ()

41 AFTER HOURS CONT. MAINT. ()

42 UNLOADING CONTROLLER ()

43 EMPLOYEE FACILITIES ()

44 DAILY RECORDS ()

45 APPROVED PLANS ()

RECOMMENDATIONS AND COMMENTS (COMMENTS ON ALL UNSATISFACTORY ITEMS - SHOW DATA ELEMENT #)

Site looks good - no problems at time of this inspection.- Plant closed - at the end of March - Company will contact.

The signature at the bottom of this report certifies that the inspector has personally checked each item and has answered according to the true condition existing at time of contract.

William L. Burroughs, Jr.

INSPECTOR'S SIGNATURE

TITLE

Date 8 March 1982Time 1:30

(AM/PM)

I certify that the inspector has given me a copy of this report and has explained any deficiencies noted.

Johnny Toney, Sr.

OWNER OR OPERATOR SIGNATURE

TITLE

WSE D001 7008 6351

DETACH

DETACH

X. DESCRIPTION OF HAZARDOUS WASTES (continued from front)**A. HAZARDOUS WASTES FROM NON-SPECIFIC SOURCES.** Enter the four-digit number from 40 CFR Part 261.31 for each listed hazardous waste from non-specific sources your installation handles. Use additional sheets if necessary.

1	2	3	4	5	6
23 - 26	23 - 26	23 - 26	23 - 26	23 - 26	23 - 26
7	8	9	10	11	12
23 - 26	23 - 26	23 - 26	23 - 26	23 - 26	23 - 26

B. HAZARDOUS WASTES FROM SPECIFIC SOURCES. Enter the four-digit number from 40 CFR Part 261.32 for each listed hazardous waste from specific industrial sources your installation handles. Use additional sheets if necessary.

13	14	15	16	17	18
23 - 26	23 - 26	23 - 26	23 - 26	23 - 26	23 - 26
19	20	21	22	23	24
23 - 26	23 - 26	23 - 26	23 - 26	23 - 26	23 - 26
25	26	27	28	29	30
23 - 26	23 - 26	23 - 26	23 - 26	23 - 26	23 - 26

C. COMMERCIAL CHEMICAL PRODUCT HAZARDOUS WASTES. Enter the four-digit number from 40 CFR Part 261.33 for each chemical substance your installation handles which may be a hazardous waste. Use additional sheets if necessary.

31	32	33	34	35	36
23 - 26	23 - 26	23 - 26	23 - 26	23 - 26	23 - 26
37	38	39	40	41	42
23 - 26	23 - 26	23 - 26	23 - 26	23 - 26	23 - 26
43	44	45	46	47	48
23 - 26	23 - 26	23 - 26	23 - 26	23 - 26	23 - 26

D. LISTED INFECTIOUS WASTES. Enter the four-digit number from 40 CFR Part 261.34 for each listed hazardous waste from hospitals, veterinary hospitals, medical and research laboratories your installation handles. Use additional sheets if necessary.

49	50	51	52	53	54
23 - 26	23 - 26	23 - 26	23 - 26	23 - 26	23 - 26

E. CHARACTERISTICS OF NON-LISTED HAZARDOUS WASTES. Mark "X" in the boxes corresponding to the characteristics of non-listed hazardous wastes your installation handles. (See 40 CFR Parts 261.21 - 261.24.)☐ 1. IGNITABLE
(D001)☐ 2. CORROSIVE
(D002)☐ 3. REACTIVE
(D003)☐ 4. TOXIC
(D000)**X. CERTIFICATION**

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

SIGNATURE

John D. Easley

NAME & OFFICIAL TITLE (type or print)

John D. Easley
Superintendent, Maintenance Support

DATE SIGNED

8/11/80

Monsanto

MONSANTO TEXTILES COMPANY
P. O. Box 165
Blacksburg, South Carolina 29702
Phone: (803) 839-2302

August 11, 1980

Mr. Ray Cozart
EPA Region IV
RCRA Activities
345 Courtland, N. E.
Atlanta, Georgia 30308

Dear Mr. Cozart:

The Monsanto Blacksburg plant is not currently involved in any hazardous waste activities. However, to facilitate that possibility in the future, I am requesting an EPA ID number. I have completed Items I through V and X on the attached notification form 8700-12.

If you need additional information, please don't hesitate to contact me.

Sincerely,



John D. Easley
Supt., Maintenance Support

JDE/pp

Attachment



[illegible]

(3) 1

February 4, 1981

Mr. John D. Easley
Monsanto Textiles Company
P. O. Box 165
Blacksburg, SC 29702

RE: Industrial Landfill Permit #IWP-179
Cherokee County

Dear Mr. Easley:

Enclosed please find Industrial Landfill Permit #IWP-179 issued to Monsanto Textiles Company for the operation of an industrial solid waste disposal facility. This site is located in Cherokee County on plant property near the intersection of Interstate 85 and SC Road 99. Wastes at this site will be limited to inert materials including wood, cardboard and metal scraps. It is the responsibility of Monsanto Textiles Company to ensure that all unauthorized waste is prohibited from the site.

The facility shall be run in accordance with the plans and report submitted to this Office. Further, the following conditions will apply:

1. Site shall be spread, compacted, and covered every fifteen (15) days.
2. Final cover for the landfill shall consist of at least two (2) feet of clean compacted soil.
3. The landfill area shall be graded and seeded with an appropriate vegetative cover after completion of landfilling.

This permit is valid for a period of three (3) years from the date of issue. During this time, representatives of this Office will conduct periodic inspections to ensure compliance with State Regulations and permit conditions. At the end of this period, the permit may be extended if operation has been satisfactory.

Mr. Easley
Page 2
Februray 4, 1981

3 2

If you have any questions, please feel free to contact this Office.

Sincerely,

Hartsill W. Truesdale, P.E., Director
Division of Engineering and
Program Development
Bureau of Solid and Hazardous
Waste Management

HWT:dhs

cc: W. L. Buffington, Jr.

Enclosure

23

SOLID WASTE MANAGEMENT SYSTEM PERMIT RECORD

Name of Establishment Monsanto Textiles Company
Address P. O. Box 165, Blacksburg, SC 29702
Supervisor John D. Easley Phone (803) 839-2302
Permit to Operate an Industrial Landfill
Date Issued February 4, 1981 Permit No. IWP-179
Approved By Robert E. Malpass, P.E., Chief, Bureau of Solid and Hazardous Waste Management

South Carolina Department Of Health And Environmental Control

Page 1 of 2



**Solid Waste Management Division
Columbia, South Carolina**

Permit

Monsanto Textiles Company is hereby issued a permit
to operate an Industrial Landfill
located on Plant Property in Blacksburg, SC, in accordance
with State laws, rules and regulations of the South Carolina Department of Health and
Environmental Control and the following conditions:

1. Site to be run in accordance with plans and report submitted to
this Office.
2. Waste at site restricted to inert waste including wood, cardboard,

Permit conditions continued
on Page 2 of 2.

Dated this 4th day of February, 19 81

Permit No. IWP-179

Robert E. Malpass
Robert E. Malpass, P.E., Chief ~~Director~~
Bureau of Solid & Hazardous Waste Mgt

THIS CERTIFICATE IS NON TRANSFERABLE AND IS THE PROPERTY OF THE SOLID WASTE MANAGEMENT DIVISION AND MUST BE
SURRENDERED ON DEMAND. KEEP POSTED AT ALL TIMES IN A CONSPICUOUS PLACE ON THE PREMISES.

②

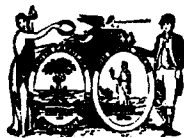
()

- 1-

South Carolina Pollution Control Authority

AUTHORITY MEMBERS

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C. MARION SHIVER, JR. CAMDEN



HUBERT J. WEBB, PH.D.
EXECUTIVE DIRECTOR

OWEN BUILDING
1321 LADY STREET P. O. BOX 11628
Columbia, South Carolina 29211

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BOB HICKMAN COLUMBIA
LEWIS E. HENDRICKS COLUMBIA
J. BONNER MANLY COLUMBIA

AREA CODE 803
TELEPHONE: 756-2915

December 22, 1971

MEMORANDUM TO FILES

FROM: Noel M. Hurley, Chief *NH*
Monitoring Branch *BC*
W. Bowman Crum, Jr.
Aquatic Biologist
SUBJECT: Oil Spill at Monsanto, Blacksburg, South Carolina

On the morning of December 13, 1971, Mr. Jack Lowery informed this office by telephone of an oil spill at the Monsanto Plant in Blacksburg, South Carolina. He reported that Number Five oil in excess of 2,000 gallons had leaked from the pressure gauge on a pump. One of the writers (W.B. Crum) went to Blacksburg in the afternoon to investigate.

I arrived at the Monsanto plant at 3:15 p.m. and with Mr. Lowery, Mr. Walter Cavell and others surveyed the problem. The oil had leaked from the pressure gauge on a pump located near a corner of the plant. The oil seeped through the soil below to a storm drain which carried it to a ditch beside the frontage road in front of the plant. It traveled about 100 yards in this ditch and then seeped through the soil in the area of a storm drain which crossed under Highway I-85. Once on the opposite side of I-85, the oil settled in two low areas, one between I-85 and the frontage road and the other at the edge of a wooded area. In this wooded area the oil found its way into the headwaters of a tributary to Buffalo Creek. We followed Buffalo Creek and found some on the surface at County Road 52 and none at S. C. Road 198 (see attached map).

The officials at Monsanto said that the leak had been discovered on Saturday, December 11. They had engaged a septic tank pumping truck to pump out the oil collecting in low areas on the opposite side of I-85. At about 4:00 p.m. they reported that a little over 5,000 gallons of an oil-water mixture had been removed. They had also placed sawdust in the open ditch in front of the plant to absorb remaining oil.

MEMORANDUM

- 2 -

December 22, 1971

FROM: Noel M. Hurley
W. Bowman Crum, Jr.

SUBJECT: Oil Spill at Monsanto, Blacksburg, South Carolina

I informed the officials at Monsanto that some action must be taken to contain the oil which had gotten into the creek and suggested the use of booms constructed across the creek using fence wire and straw or hay on the water surface to soak up the oil. I suggested placing a boom at S. C. Highway 198, one at Road 52, and several in the headwaters of this creek. Plant officials made plans to construct booms and also to get a portable pump and back hoe into the headwater area to dam the most concentrated area and pump out heavily contaminated oil. I left Monsanto at 5:30 p.m. satisfied that company officials were taking steps necessary to contain and then clean up the spilled oil. I assured them that they had met their obligation as far as notifying the proper governmental agency.

On Tuesday, December 13, 1971, Mr. Dennis Powell of the Greenville office went to Monsanto and found that Mr. Crum's recommendations were being carried out. Mr. Jack Lowery of Monsanto called the Columbia office on this date and requested that someone return to the Monsanto, Blacksburg Plant, to meet with Mr. James E. Lipe, Manager, Environment and Ecology, for Monsanto.

I, Noel M. Hurley, met with Mr. Walter E. Cavell, Plant Manager; Mr. Jack Lowery, Mr. Lipe and other Monsanto officials during the afternoon of December 15. Approximately twenty men were working to clean up the spilled oil.

Barricades of straw and hay had been placed at several points and oil had been removed from ditches and holes between the plant and wooded area. The sawdust and oil, along with some dirt, had been removed and hauled to Monsanto property and put in a pit. The area scraped was being covered with straw to prevent erosion and to soak up any oil which might seep from under ground.

Please refer to attached map. The barricade at Point A was retaining all oil above this point and straw was being changed periodically. There was some oil between Points A and B which was being collected at B. A crew started at approximately 3:00 p.m. from Point A to remove trash from the stream and to sweep the oil on down stream to point B for removal. There was only a trace of oil at Point C and none could be detected between Points C and D.

MEMORANDUM

- 3 -

December 22, 1971

FROM: Noel M. Hurley
W. Bowman Crum, Jr.

SUBJECT: Oil Spill at Monsanto, Blacksburg, South Carolina

Mr. Dennis Powell of the Greenville office returned to Monsanto on Monday, December 20, and found men still at work, with the job almost completed.

It appears to me that officials of Monsanto responded to a very difficult situation and are cleaning up the accidental spill satisfactorily.

Talked with Mr. Jack Lowery of Monsanto today and he stated that Monsanto would continue to maintain the barricades for several days or as long as any oil could be removed.

NMH/WBCjr/cld

Attachments

South Carolina Pollution Control Authority

AUTHORITY MEMBERS

ROBERT W. TURNER . . . CHARLESTON
CHAIRMAN
BEN N. MILLER, M.D. . . . COLUMBIA
J. FRANK MIXSON . . . GEORGETOWN
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1321 LADY STREET P. O. BOX 11628
Columbia, South Carolina 29211

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BOB HICKMAN . . . COLUMBIA
LEWIS E. HENDRICKS . . . COLUMBIA
J. BONNER MANLY . . . COLUMBIA

AREA CODE 803
TELEPHONE: 756-2915

December 8, 1971

Mr. Jack Lowery
Superintendent,
Personnel & Services
Monsanto Company
P. O. Box 165
Blacksburg, S. C. 29702

Dear Mr. Lowery:

Mr. J. W. Smith has asked me to reply to your letter of November 22, 1971 requesting a permit to continue open burning of the waste you described.

Regulation 2A (copy enclosed) specifically prohibits this practice of open burning, and I cannot recommend to the Director that such permission be granted. Section I, Paragraph J-1 does provide for highly restricted permits when unusual circumstances warrant it. Such permission is the exception rather than the rule, however, and I recommend that you seek alternate methods of disposal.

I am not expert in land-fill technology, I must admit, but we might be of help if incineration is considered. In the latter case, I remind you that incinerators must receive a permit to construct and operate, in accordance with Standard No. 4A, also enclosed.

Please contact me if I can be of any assistance.

Very truly yours,

W. G. Crosby, Chief
Division of Air Pollution Control

WGC:jpg

Enclosure

CC: J. W. Smith

OMB Clearance No. 158-576002

Expiration Date. September 1977

Industrial Waste Survey Form

General Information

RECEIVED

JUL 15 1987

S. C. DEPT. OF

ENVIRONMENTAL

Bureau of Solid Waste Management

7. Generator:

Business Name: Monsanto Textiles Company No. of Employees: 110

Business Address: P. O. Box 165 City: Blacksburg Zip: 29702

Location: Blacksburg County: Cherokee District:

Facility Manager: Walter E. Cavell Phone: 839-2302

Person Completing Form: Lomax M. Murphy, Jr. Title: Supt., Maint. Spt. Phone: 839-2302

Time Period (which data represents): September 1976 - August 1977

Site Group Name - (4 digit code); Primary 2282 Secondary Other

Average Daily Water Flow, Incoming (gallons, 7,480 gallons)

- Give a brief description of manufacturing process: The plant is a non-manufacturing customer service facility engaged in repackaging of synthetic fibers (warping and beaming) and the receipt, warehousing, and shipping of such fibers in cartons, bales, spools, and beams.

- Complete fully one of the attached sheets for each waste stream. (Be sure to include every waste stream.)

I. Description

Waste Stream: Domestic Sewage

Chemical Composition (Weight Basis): Water and Domestic Sewage

Amount/Time: 1.37 Gallons/Minute Average Flow

Other Information: (Hazards, Flash Point, Toxicity, etc.) None

II. Haulers and/or Collectors Used for Waste

Business Name: N/A Phone: ()

Business Address: City: State:

County: Zip: Permit No.:

Transportation Method:

III. Treatment and/or Disposal Facilities Owned by Generator Used for Waste

Amount/Time: 1.37 Gallons/Minute Average Flow

Methods Used (Be Specific): Oxidation Pond

Permit Nos. (If Applicable): SC0001911

IV. Other Disposal and/or Processing Facilities Used for Disposal of Waste

Business Name: N/A Phone: ()

Business Address: City: State:

County: Zip: Permit No.:

Amount/Time:

Methods Used (Be Specific):

V. Storage Facilities Owned or Used by Generator for Waste

Amount Stored/Time: N/A

Amount Transferred/Time: Destination:

Method of Storage:

Description of Storage Area:

Location:

Future Plans for Stored Waste: None

I. Waste Description

Solid ☒ Liquid _____ Liquid to treatment system _____ Gas _____ Sludge _____ (% Solids) _____

Waste Stream: Plant Refuse

Chemical Composition (Weight Basis): Paper, Corrugated Paper, Canteen Waste, Clean-up Trash, etc.

Amount/Time: 34 Tons Per Month

Other Information: (Hazards, Flash Point, Toxicity, etc.) _____

II. Haulers and/or Collectors Used for Waste

Business Name: Spartan Waste Control Phone: (803) 585-8127

Business Address: P. O. Box 5349 City: Spartanburg State: S. C.

County: Spartanburg Zip: 29301 Permit No.: Unknown

Transportation Method: Trash Dumpster

III. Treatment and/or Disposal Facilities Owned by Generator Used for Waste

Amount/Time: 12 Tons Per Month

Methods Used (Be Specific): Open Trash Pit

Permit Nos. (If Applicable): N/A

IV. Other Disposal and/or Processing Facilities Used for Disposal of Waste

Business Name: Baler Equipment Co. Phone: (803) 235-3454

Business Address: P. O. Box 831 City: Taylors State: S. C.

County: Greenville Zip: 29678 Permit No.: Unknown

Amount/Time: 20 Tons Per Month

Methods Used (Be Specific): Corrugated Paper Reclaim

V. Storage Facilities Owned or Used by Generator for Waste

Amount Stored/Time: None

Amount Transferred/Time: _____ Destination: _____

Method of Storage: _____

Description of Storage Area: _____

Location: _____

Future Plans for Stored Waste: None

Bill

2

Monsanto

MONSANTO TEXTILES COMPANY
P. O. Box 165
Blacksburg, South Carolina 29702
Phone: (803) 839-2302

September 2, 1980

RECEIVED

SEP 04 1980

S. C. D. H. E. C.
SPARTANBURG

Mr. William L. Buffington, Jr.
Environmental Quality Manager
Appalachia III District
South Carolina Department of Health
and Environmental Control
2084 East Main Street Extension
Spartanburg, South Carolina 29302

Dear Mr. Buffington:

On your last visit I indicated that our permit application to operate an inert disposal site was being reviewed by our company environmental coordinator. We now have approval to submit the application (attached) for your review and approval. If the permit meets with your approval, please forward it to your Columbia office for final approval.

If there are any problems, please contact me.

Sincerely,

John D. Easley

John D. Easley
Supt., Maintenance Support

JDE/pp

Attachment



a unit of Monsanto Company

SOUTH CAROLINA DEPARTMENT OF HEALTH
AND ENVIRONMENTAL CONTROL
COLUMBIA, S. C.

APPLICATION FOR PERMIT TO CONSTRUCT
SOLID WASTE MANAGEMENT SYSTEM
(INERT AND CELLULOSIC MATERIALS)

Date of Application September 2, 1980 County Cherokee
Name of Project (Location and Description) Monsanto Blacksburg Inert Landfill located
on Monsanto property near intersection of Interstate 85 and SC Road 99 in Cherokee County.

Nearest Landfill (Name and Location) Cherokee County Landfill off Highway 18,
Gaffney, S. C.

Type (s) and Amount (s) of Waste (s) Generated Approximately one (1) cubic yard per day
of inert wastes including wood, cardboard, and metal scraps.

This application is being made on behalf of Monsanto Company, Blacksburg Plant
whose address is P. O. Box 165, Blacksburg, S. C. 29702

Designing Engineer

(Address)

(Phone)

Official Directly Responsible

John D. Easley

Superintendent, Maintenance Support

(Official Title)

803/839-2302

(Phone)

Application No. _____

File in Quadruplicate

MONSANTO COMPANY

BLACKSBURG PLANT

DESCRIPTION OF INERT DISPOSAL SITE

Find attached an aerial photograph and drawing of the disposal area. Note that there are no homes, commercial or industrial buildings adjacent to the site.

The disposal area is at approximately the same elevation as the area immediately surrounding it. Surface water runoff is not a problem and no drainage devices are required. Dirt from excavation of the burial pit is used as cover material. Access to the site is controlled by a fence and chain with woodland surrounding the remainder of the area. There is a gravel service road to the disposal area.

The land is generally clear so that no special provisions are necessary to dispose of land clearing debris. The water table at the lowest point of the fill area is estimated to be 150 feet. There is no standing water in the disposal area. The frequency of covering is thirty (30) days. Completed sites are covered with at least two (2) feet of earth and seeded with native vegetation. Wastes are not burned; however, the plant fire brigade and two volunteer fire departments (Blacksburg and Antioch) are on hand in case of fire. An average of one (1) cubic yard of waste is disposed of daily with an expected life of four (4) years per pit. The site was originally farmland and the soil is generally clay.

This site is used strictly for disposal of inert wastes such as wood, cardboard, and scrap metal.

MONSANTO BLACKBUG INERT LANDFILL

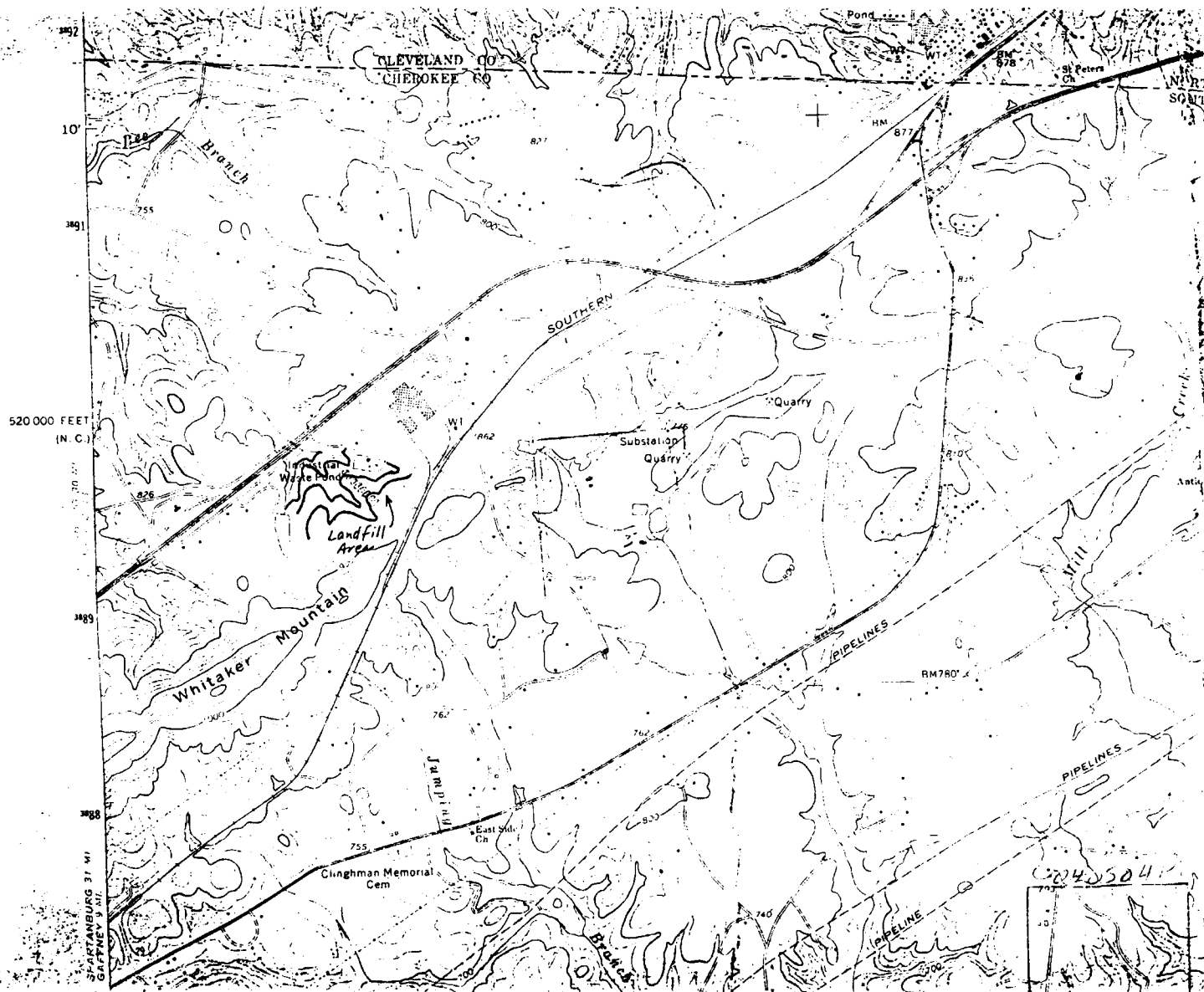
Additional Info. Required
I Plot Area

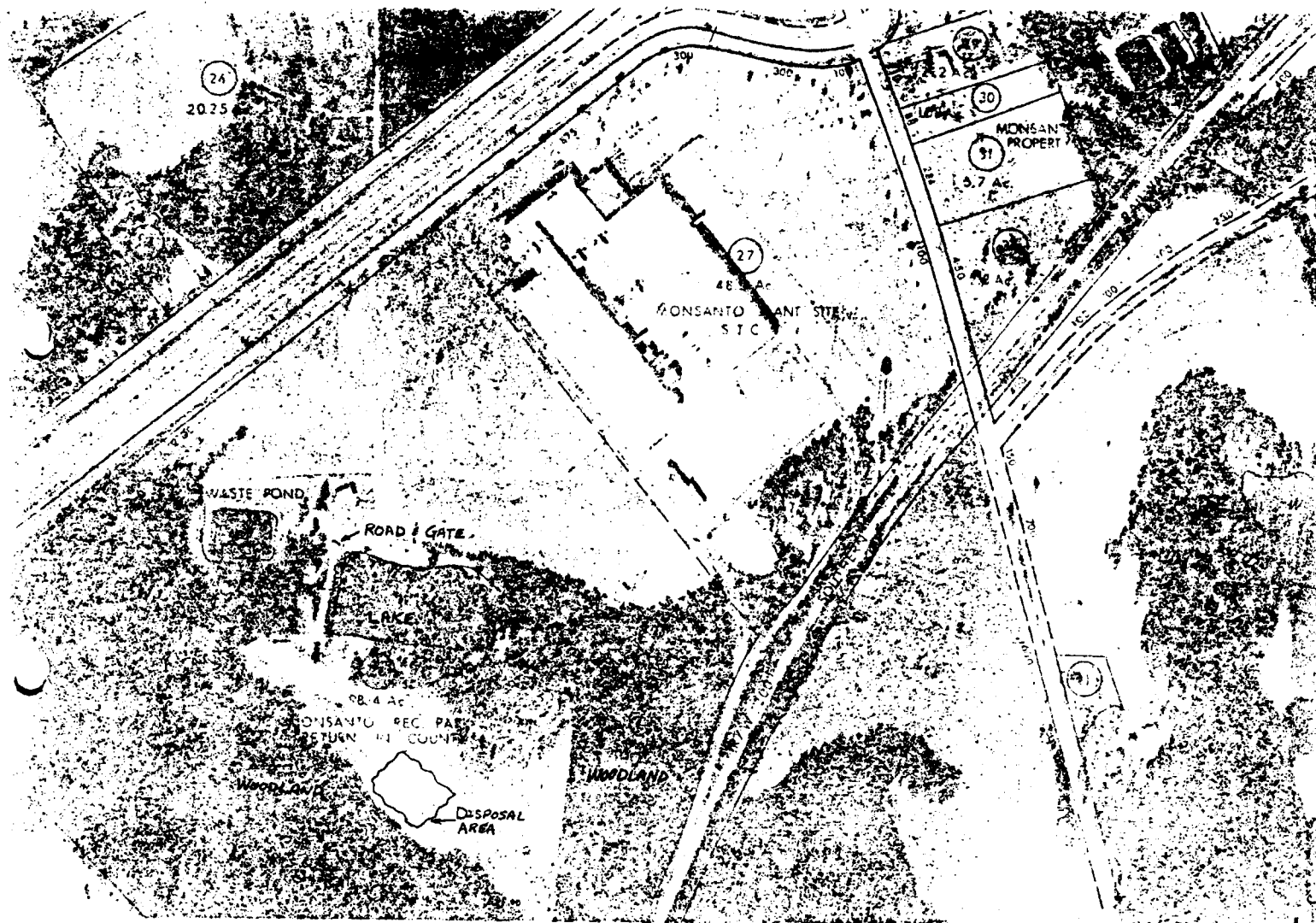
1. Cross sections of both the original & proposed fill elevations

2. Grades for drainage (topo map?)

3. Show fencing on map

4





PROPERTY MAP AND RECORDS SYSTEM
CHEROKEE COUNTY, S.C.

NORTH CAROLINA-SOUTH CAROLINA
7.5 MINUTE SERIES (TOPOGRAPHIC)

Location.

SCALE 1:24,000

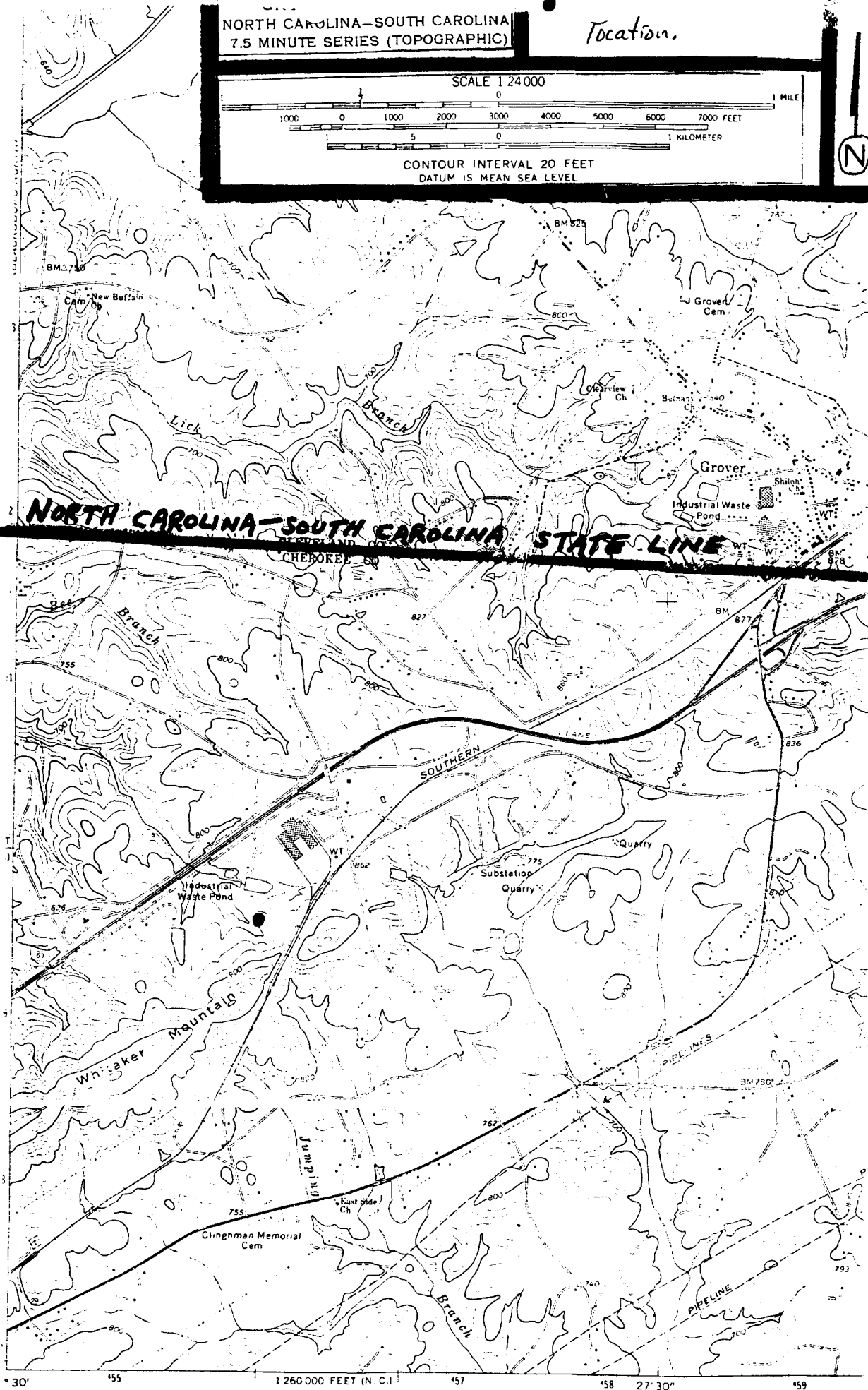
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 5 0 1 KILOMETER

CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL

N

NORTH CAROLINA-SOUTH CAROLINA STATE LINE



455

1:260,000 FEET (N.C.)

457

458 27 30"

459

South Carolina Department of Health and Environmental Control

2600 Bull Street
Columbia, S.C. 29201

Commissioner
Michael D. Jarrett



November 15, 1988

Board

Harry M. Hallman, Jr., Chairman
Toney Graham, Jr. M.D., Vice-Chairman
John B. Pate, M.D., Secretary
Oren L. Brady, Jr.
Moses H. Clarkson, Jr.
Euta M. Colvin, M.D.
Henry S. Jordan, M.D.

Mr. Brian Holaway
345 Courtland St.
Atlanta, GA 30365


Dear Brian:

This letter is to notify you that we will not be conducting a preliminary assessment update on the Blackfield Dump Site (SCD 981 003 445) in Cherokee County, South Carolina because Blackfield Dump Site and Monsanto Textiles Company (SCD 001 700 863) are different names for the exact same site. Additionally, Thomas J. Dziekan, Environmental Quality Manager - SCDHEC, completed a preliminary assessment of the Monsanto Textiles Company site on August 7, 1987. In his preliminary assessment, Mr. Dziekan documented that the aforementioned sites are the same and suggested that the Blackfield Dump Site be deleted from CERCLIS.

Furthermore, U.S. EPA, Region IV conducted a site investigation in June 1988 that concluded that Monsanto Textiles Company in Cherokee County required no further action. Therefore, no additional effort will be placed in evaluating the Blackfield Dump Site. No PA-update will be substituted for the Blackfield Dump Site under the current PA/SI Cooperative Agreement for the State of South Carolina because there are no additional sites needing a PA-Update.

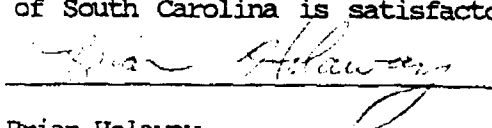
If you have any questions, please give me a call.

Sincerely,


John K. Cresswell
Section Manager
Bureau of Solid and Hazardous
Waste Management

JKC/wcb

The course of action described above and conducted under the PA/SI Cooperative Agreement for the State of South Carolina is satisfactory to me.


Brian Holaway
U.S. EPA, Region IV

cc: Michael Muthig, Division of Hydrogeology Files

POTENTIAL HAZARDOUS WASTE SITE IDENTIFICATION AND PRELIMINARY ASSESSMENT		REGION	SITE NUMBER (to be assigned by HQ)
			2612
<p>NOTE: This form is completed for each potential hazardous waste site to help set priorities for site inspection. The information submitted on this form is based on available records and may be updated on subsequent forms as a result of additional inquiries and on-site inspections.</p> <p>GENERAL INSTRUCTIONS: Complete Sections I and III through X as completely as possible before Section II (Preliminary Assessment). File this form in the Regional Hazardous Waste Log File and submit a copy to: U.S. Environmental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Task Force (EN-335); 401 M St., SW; Washington, DC 20460.</p>			
I. SITE IDENTIFICATION			
A. SITE NAME BLACKFIELD		D. STREET (or other identifier) INTERSTATE 85 & ROAD 99	
C. CITY BLACKSBURG	D. STATE SC	E. ZIP CODE 29702	F. COUNTY NAME CHEROKEE
G. OWNER/OPERATOR (if known) 1. NAME MONSANTO		2. TELEPHONE NUMBER	
H. TYPE OF OWNERSHIP <input type="checkbox"/> 1. FEDERAL <input type="checkbox"/> 2. STATE <input type="checkbox"/> 3. COUNTY <input type="checkbox"/> 4. MUNICIPAL <input checked="" type="checkbox"/> 5. PRIVATE <input type="checkbox"/> 6. UNKNOWN			
I. SITE DESCRIPTION Private Company Insect			
J. HOW IDENTIFIED (i.e., citizen's complaints, OSHA citations, etc.)			K. DATE IDENTIFIED (mo., day, & yr.)
L. PRINCIPAL STATE CONTACT 1. NAME		2. TELEPHONE NUMBER	
II. PRELIMINARY ASSESSMENT (complete this section last)			
A. APPARENT SERIOUSNESS OF PROBLEM <input type="checkbox"/> 1. HIGH <input type="checkbox"/> 2. MEDIUM <input type="checkbox"/> 3. LOW <input checked="" type="checkbox"/> 4. NONE <input type="checkbox"/> 5. UNKNOWN			
B. RECOMMENDATION <input checked="" type="checkbox"/> 1. NO ACTION NEEDED (no hazard) <input type="checkbox"/> 2. IMMEDIATE SITE INSPECTION NEEDED a. TENTATIVELY SCHEDULED FOR: b. WILL BE PERFORMED BY: <input type="checkbox"/> 3. SITE INSPECTION NEEDED a. TENTATIVELY SCHEDULED FOR: b. WILL BE PERFORMED BY: <input type="checkbox"/> 4. SITE INSPECTION NEEDED (low priority)			
C. PREPARER INFORMATION 1. NAME		2. TELEPHONE NUMBER	3. DATE (mo., day, & yr.)
III. SITE INFORMATION			
A. SITE STATUS <input checked="" type="checkbox"/> 1. ACTIVE (Those industrial or municipal sites which are being used for waste treatment, storage, or disposal on a continuing basis, even if little-quantity) <input type="checkbox"/> 2. INACTIVE (Those sites which no longer receive wastes) <input type="checkbox"/> 3. OTHER (specify): _____ (Those sites that include such incidents like "midnight dumping" where no regular or continuing use of the site for waste disposal has occurred.)			
B. IS GENERATOR ON SITE? <input type="checkbox"/> 1. NO <input checked="" type="checkbox"/> 2. YES (specify generator's four-digit SIC Code): _____			
C. AREA OF SITE (in acres)	D. IF APPARENT SERIOUSNESS OF SITE IS HIGH, SPECIFY COORDINATES 1. LATITUDE (deg.-min.-sec.) 2. LONGITUDE (deg.-min.-sec.)		
E. ARE THERE BUILDINGS ON THE SITE? <input checked="" type="checkbox"/> 1. NO <input type="checkbox"/> 2. YES (specify): _____			

IV. CHARACTERIZATION OF SITE ACTIVITY

Indicate the major site activity(ies) and details relating to each activity by marking 'X' in the appropriate boxes.

<input checked="" type="checkbox"/> A. TRANSPORTER	<input checked="" type="checkbox"/> B. STORER	<input checked="" type="checkbox"/> C. TREATER	<input checked="" type="checkbox"/> D. DISPOSER
1. RAIL	1. PILE	1. FILTRATION	1. LANDFILL
2. SHIP	2. SURFACE IMPOUNDMENT	2. INCINERATION	2. LANDFARM
3. BARGE	3. DRUMS	3. VOLUME REDUCTION	3. OPEN DUMP
4. TRUCK	4. TANK, ABOVE GROUND	4. RECYCLING/RECOVERY	4. SURFACE IMPOUNDMENT
5. PIPELINE	5. TANK, BELOW GROUND	5. CHEM./PHYS. TREATMENT	5. MIDNIGHT DUMPING
6. OTHER (specify):	6. OTHER (specify):	6. BIOLOGICAL TREATMENT	6. INCINERATION
		7. WASTE OIL REPROCESSING	7. UNDERGROUND INJECTION
		8. SOLVENT RECOVERY	8. OTHER (specify):
		9. OTHER (specify):	

E. SPECIFY DETAILS OF SITE ACTIVITIES AS NEEDED

V. WASTE RELATED INFORMATION

A. WASTE TYPE

☐ 1. UNKNOWN ☐ 2. LIQUID ☒ 3. SOLID ☐ 4. SLUDGE ☐ 5. GAS

B. WASTE CHARACTERISTICS

☐ 1. UNKNOWN ☐ 2. CORROSIVE ☐ 3. IGNITABLE ☐ 4. RADIOACTIVE ☐ 5. HIGHLY VOLATILE
☐ 6. TOXIC ☐ 7. REACTIVE ☐ 8. INERT ☐ 9. FLAMMABLE
☐ 10. OTHER (specify):

C. WASTE CATEGORIES

1. Are records of wastes available? Specify items such as manifests, inventories, etc. below:

Inert

2. Estimate the amount (specify unit of measure) of waste by category; mark 'X' to indicate which wastes are present.

a. SLUDGE	b. OIL	c. SOLVENTS	d. CHEMICALS	e. SOLIDS	f. OTHER
AMOUNT	AMOUNT	AMOUNT	AMOUNT	AMOUNT	AMOUNT
UNIT OF MEASURE	UNIT OF MEASURE	UNIT OF MEASURE	UNIT OF MEASURE	UNIT OF MEASURE	UNIT OF MEASURE
<input checked="" type="checkbox"/> (1) PAINT, PIGMENTS	<input checked="" type="checkbox"/> (1) OILY WASTES	<input checked="" type="checkbox"/> (1) HALOGENATED SOLVENTS	<input checked="" type="checkbox"/> (1) ACIDS	<input checked="" type="checkbox"/> (1) FLYASH	<input checked="" type="checkbox"/> (1) LABORATORY PHARMACEUT.
(2) METALS SLUDGES	(2) OTHER (specify):	(2) NON-HALOGENATED SOLVENTS	(2) PICKLING LIQUORS	(2) ASBESTOS	(2) HOSPITAL
(3) POTW		(3) OTHER (specify):	(3) CAUSTICS	(3) MILLING/ MINE TAILINGS	(3) RADIOACTIVE
(4) ALUMINUM SLUDGE			(4) PESTICIDES	(4) FERROUS SMELTG. WASTES	(4) MUNICIPAL
(5) OTHER (specify):			(5) DYES/INKS	(5) NON-FERROUS SMELTG. WASTES	(5) OTHER (specify):
			(6) CYANIDE	(6) OTHER (specify):	
			(7) PHENOLS		
			(8) HALOGENS		
			(9) PCB		
			(10) METALS		
			(11) OTHER (specify):		

V. WASTE RELATED INFORMATION (continued)

3. LIST SUBSTANCES OF GREATEST CONCERN WHICH MAY BE ON THE SITE (place in descending order of hazard).

4. ADDITIONAL COMMENTS OR NARRATIVE DESCRIPTION OF SITUATION KNOWN OR REPORTED TO EXIST AT THE SITE.

VI. HAZARD DESCRIPTION

A. TYPE OF HAZARD	B. POTENTIAL HAZARD (mark 'X')	C. ALLEGED INCIDENT (mark 'X')	D. DATE OF INCIDENT (mo., day, yr.)	E. REMARKS
1. NO HAZARD	<input checked="" type="checkbox"/>			
2. HUMAN HEALTH				
3. NON-WORKER INJURY/EXPOSURE				
4. WORKER INJURY				
5. CONTAMINATION OF WATER SUPPLY				
6. CONTAMINATION OF FOOD CHAIN				
7. CONTAMINATION OF GROUND WATER				
8. CONTAMINATION OF SURFACE WATER				
9. DAMAGE TO FLORA/FAUNA				
10. FISH KILL				
11. CONTAMINATION OF AIR				
12. NOTICEABLE ODORS				
13. CONTAMINATION OF SOIL				
14. PROPERTY DAMAGE				
15. FIRE OR EXPLOSION				
16. SPILLS/LEAKING CONTAINERS/ RUNOFF/STANDING LIQUIDS				
17. SEWER, STORM DRAIN PROBLEMS				
18. EROSION PROBLEMS				
19. INADEQUATE SECURITY				
20. INCOMPATIBLE WASTES				
21. MIDNIGHT DUMPING				
22. OTHER (specify):				

VII. PERMIT INFORMATION

A. INDICATE ALL APPLICABLE PERMITS HELD BY THE SITE.

- ☐ 1. NPDES PERMIT ☐ 2. SPCC PLAN ☐ 3. STATE PERMIT (specify) *needs state inst permit -*
☐ 4. AIR PERMITS ☐ 5. LOCAL PERMIT ☐ 6. RCRA TRANSPORTER
☐ 7. RCRA STORER ☐ 8. RCRA TREATER ☐ 9. RCRA DISPOSER
☐ 10. OTHER (specify):

B. IN COMPLIANCE?

- ☐ 1. YES ☐ 2. NO ☐ 3. UNKNOWN

4. WITH RESPECT TO (list regulation name & number):

VIII. PAST REGULATORY ACTIONS

- ☐ A. NONE ☐ B. YES (summarize below)

a/a

IX. INSPECTION ACTIVITY (past or on-going)

- ☐ A. NONE ☐ B. YES (complete items 1, 2, 3, & 4 below)

1. TYPE OF ACTIVITY	2. DATE OF PAST ACTION (mo., day, & yr.)	3. PERFORMED BY: (EPA/State)	4. DESCRIPTION

a/a

X. REMEDIAL ACTIVITY (past or on-going)

- ☐ A. NONE ☐ B. YES (complete items 1, 2, 3, & 4 below)

1. TYPE OF ACTIVITY	2. DATE OF PAST ACTION (mo., day, & yr.)	3. PERFORMED BY: (EPA/State)	4. DESCRIPTION

NOTE: Based on the information in Sections III through X, fill out the Preliminary Assessment (Section II) information on the first page of this form.



POTENTIAL HAZARDOUS WASTE SITE
TENTATIVE DISPOSITION

REGION 4 SITE NUMBER 50000000140

File this form in the regional Hazardous Waste Log File and submit a copy to: U.S. Environmental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Task Force (EN-335); 401 M St., SW; Washington, DC 20460.

I. SITE IDENTIFICATION

A. SITE NAME Blackfield B. STREET Interstate 85 & Road 99
C. CITY Blacksburg D. STATE DC E. ZIP CODE 24702

II. TENTATIVE DISPOSITION

Indicate the recommended action(s) and agency(ies) that should be involved by marking 'X' in the appropriate boxes.

RECOMMENDATION	MARK 'X'	ACTION AGENCY				
		EPA	STATE	LOCAL	PRIVATE	
A. NO ACTION NEEDED -- NO HAZARD	X					
B. INVESTIGATIVE ACTION(S) NEEDED (If yes, complete Section III.)						
C. REMEDIAL ACTION NEEDED (If yes, complete Section IV.)						
D. ENFORCEMENT ACTION NEEDED (If yes, specify in Part E whether the case will be primarily managed by the EPA or the State and what type of enforcement action is anticipated.)						

E. RATIONALE FOR DISPOSITION

PA by the State.

F. INDICATE THE ESTIMATED DATE OF FINAL DISPOSITION (mo., day, & yr.) G. IF A CASE DEVELOPMENT PLAN IS NECESSARY, INDICATE THE ESTIMATED DATE ON WHICH THE PLAN WILL BE DEVELOPED (mo., day, & yr.)

H. PREPARER INFORMATION

1. NAME Ron Jager 2. TELEPHONE NUMBER 257-2234 3. DATE (mo., day, & yr.) 8/6/81

III. INVESTIGATIVE ACTIVITY NEEDED

A. IDENTIFY ADDITIONAL INFORMATION NEEDED TO ACHIEVE A FINAL DISPOSITION.

B. PROPOSED INVESTIGATIVE ACTIVITY (Detailed Information)

1. METHOD FOR OBTAINING NEEDED ADDITIONAL INFO.	2. SCHEDULED DATE OF ACTION (mo., day, & yr.)	3. TO BE PERFORMED BY (EPA, Contractor, State, etc.)	4. ESTIMATED MANHOURS	5. REMARKS
a. TYPE OF SITE INSPECTION				
(1)				
(2)				
(3)				
b. TYPE OF MONITORING				
(1)				
(2)				
c. TYPE OF SAMPLING				
(1)				
(2)				



POTENTIAL HAZARDOUS WASTE SITE
FINAL STRATEGY DETERMINATION

REGION SITE NUMBER
IV **SC000000140**

File this form in the regional Hazardous Waste Log File and submit a copy to: U.S. Environmental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Task Force (EN-335); 401 M St., SW; Washington, DC 20460.

I. SITE IDENTIFICATION

A. SITE NAME **Blackfield** B. STREET **Interstate 85 & Road 99**
C. CITY **Blacksburg** D. STATE **S.C.** E. ZIP CODE **29702**

II. FINAL DETERMINATION

Indicate the recommended action(s) and agency(ies) that should be involved by marking 'X' in the appropriate boxes.

RECOMMENDATION	MARK 'X'	ACTION AGENCY			
		EPA	STATE	LOCAL	PRIVATE
A. NO ACTION NEEDED	X				
B. REMEDIAL ACTION NEEDED, BUT NO RESOURCES AVAILABLE (If yes, complete Section III.)					
C. REMEDIAL ACTION (If yes, complete Section IV.)					
D. ENFORCEMENT ACTION (If yes, specify in Part E whether the case will be primarily managed by the EPA or the State and what type of enforcement action is anticipated.)					

E. RATIONALE FOR FINAL STRATEGY DETERMINATION

Preliminary Assessment prepared by the State stating that no hazard exists at the site

F. IF A CASE DEVELOPMENT PLAN HAS BEEN PREPARED, SPECIFY THE DATE PREPARED (mo., day, & yr.)

G. IF AN ENFORCEMENT CASE HAS BEEN FILED, SPECIFY THE DATE FILED (mo., day, & yr.)

H. PREPARER INFORMATION

1. NAME **Ron W. Jones** 2. TELEPHONE NUMBER **FTS 257-2234** 3. DATE (mo., day, & yr.) **8/3/81**

III. REMEDIAL ACTIONS TO BE TAKEN WHEN RESOURCES BECOME AVAILABLE

List all remedial actions, such as excavation, removal, etc. to be taken as soon as resources become available. See instructions for a list of Key Words for each of the actions to be used in the spaces below. Provide an estimate of the approximate cost of the remedy.

A. REMEDIAL ACTION	B. ESTIMATED COST	C. REMARKS
	\$	
	\$	
	\$	
	\$	
	\$	
	\$	
	\$	
	\$	
	\$	
D. TOTAL ESTIMATED COST	\$	

REGION: 04
STATE : SC

U.S. ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF EMERGENCY AND REMEDIAL RESPONSE
C E R C L I S V 1.2

PAGE: 74
RUN DATE: 05/27/87
RUN TIME: 18:43:30

M.2 - SITE MAINTENANCE FORM

EPA ID : SCD981003445		* ACTION: _	
SITE NAME: BLACKFIELD DUMP SITE	SOURCE: R	* _____	
STREET : JCT I-85 & SR 99	CONG DIST: 05	* _____	
CITY : BLACKSBURG	ZIP: 29702	* _____	
CNTY NAME: CHEROKEE	CNTY CODE : 021	* _____	
LATITUDE : 35/07/18.0	LONGITUDE : 081/30/54.0	* _/_/_/_	
LL-SOURCE: R	LL-ACCURACY:	* _	
SMSA :	HYDRO UNIT: 03050105	* _____	
INVENTORY IND: Y	REMEDIAL IND: Y	* _	
REMOVAL IND: N	FED FAC IND: N	* _	
NPL IND: N	NPL LISTING DATE:	* _/_/_	
NPL DELISTING DATE:		* _/_/_	
SITE/SPILL IDS:		* _ _ _ _	
RPM NAME:	RPM PHONE: - -	* _____	
SITE CLASSIFICATION:	SITE APPROACH:	* _	
DIOXIN TIER:	REG FLD1:	* _	
REG FLD2:		* _	
RESP TERM: PENDING ()	NO FURTHER ACTION ()	* PENDING () NO FURTHER ACTION ()	
ENF DISP: NO VIABLE RESP PARTY ()	VOLUNTARY RESPONSE ()	* _	
ENFORCED RESPONSE ()	COST RECOVERY ()	* _	
SITE DESCRIPTION:		* _____	
		* _____	
		* _____	
		* _____	

REGION: 04
STATE : SC

U.S. ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF EMERGENCY AND REMEDIAL RESPONSE
CERCLIS V1.2

PAGE: 75
RUN DATE: 05/27/87
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M.2 - PROGRAM MAINTENANCE FORM

SITE: BLACKFIELD DUMP SITE

EPA ID: SCD981003445 PROGRAM CODE: H01 PROGRAM TYPE:

PROGRAM QUALIFIER: ALIAS LINK :

PROGRAM NAME: SITE EVALUATION

DESCRIPTION:

* ACTION: -

*

*

*

*

*

*

*

REGION: 04
STATE : SC

U.S. ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF EMERGENCY AND REMEDIAL RESPONSE
C E R C L I S V 1.2

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M.2 - EVENT MAINTENANCE FORM

SITE: BLACKFIELD DUMP SITE
PROGRAM: SITE EVALUATION

EPA ID: SCD981003445 PROGRAM CODE: H01

EVENT TYPE: DS1

FMS CODE: EVENT QUALIFIER :

EVENT LEAD: E

EVENT NAME: DISCOVERY

STATUS:

DESCRIPTION:

* ACTION: _

ORIGINAL

CURRENT

ACTUAL

START:

START:

START:

COMP :

COMP :

COMP : 05/29/85

HQ COMMENT:

RG COMMENT:

COOP ADR #

AMENDMENT #

STATUS

STATE %

0

REGION: 04
STATE : SC

U.S. ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF EMERGENCY AND REMEDIAL RESPONSE
C E R C L I S V 1.2

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RUN TIME: 18:43:30

M.2 - EVENT MAINTENANCE FORM

* ACTION: _

SITE: BLACKFIELD DUMP SITE
PROGRAM: SITE EVALUATION

EPA ID: SCD981003445 PROGRAM CODE: H01

EVENT TYPE: PA1

FMS CODE: EVENT QUALIFIER :

EVENT LEAD: S

EVENT NAME: PRELIMINARY ASSESSMENT

STATUS:

DESCRIPTION:

* _
* _____
* _____
* _____
* _____

ORIGINAL

CURRENT

ACTUAL

START:

START:

START: 08/03/81

" _/_/_ " _/_/_ " _/_/_ "

COMP :

COMP :

COMP : 05/29/85

" _/_/_ " _/_/_ " _/_/_ "

HQ COMMENT:

* _____
* _____

RG COMMENT:

COOP AGR #

AMENDMENT #

STATUS

STATE %

0

* _____

NOT in Level 5/29
REGION: 04 DU FINDS

New Site

U. S. ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF EMERGENCY AND REMEDIAL RESPONSE
DATA BASE UPDATED 04/09/07
T.1 - ERRIS TUTORIAL DOCUMENT

PAGE: 51
RUN DATE: 04/09/12
RUN TIME: 09:27:35

SITE DATA

EPA ID NO.: 98-100-3445

(ACTION : * - FOR DATA ENTRY USE ONLY)

SF ID: * * * * * SITE NAME: * Blackfield Dump Site * SOURCE: * * *
STREET: * Interstate 85 and SR99 * CONG. DIST: * 05 *
HATL PRIORITY: * * * CITY: * Blackburg * ST: * SC * ZIP: * 29702 *
HRS: * * * Cnty NAME: * Black Cherokee * CNTY CODE: * 021 *

Private

HRS DATE (YY/MM): * / * / * LATITUDE: * / * / * LONGITUDE: * / * / *

RESPONSE TERMINATION (CHECK ONE IF APPLICABLE): PENDING * * NO FURTHER ACTION * *

ENF. DISP. (CHECK ANY THAT APPLY): NO VIABLE RESP. PARTY * * VOL. RESP. * * ENF. RESP. * * COST RECOV. * *

RSPO NAME: * * * * * RSPO PHONE: * * * * * FED. FAC. (Y/N): * * NON-SITE: * *

SMSA: * * * * * USGS HYDRO. UNIT: * * * * * REG. FLD1: * * * * * REG. FLD2: * *

SITE DESCRIPTION: * * * * *
* * * * *
* * * * *
* * * * *

EVENTS

(ACTION - FOR DATA ENTRY USE ONLY)	EVENT TYPE	DATE (YY/MM) STARTED	DATE (YY/MM) COMPLETED	CONDUCTED BY EPA STATE RESP/PARTY OTHER	COUNTS
RESPONSE EVENTS	SITE DISCOVERY (SD)		<u>85, 05/29</u>		
	PRELIMINARY ASSESSMENT (PA)	<u>85, 08/03</u>	<u>85, 05/29</u>	* * * X	
	SITE INVESTIGATION (SI)	* / *	* / *	* * *	
	REMEDIAL ACTION (RD)	* / *	* / *	* * *	
	REMOVAL ACTION (RV)	* / *	* / *	* * *	
ENFORCE- EVENTS	ENFORCEMENT INVESTIGATION (EI)	* / *	* / *	* * *	
	ADMINISTRATIVE ORDER (AO)	* / *	* / *	* * *	
	JUDICIAL ACTION (JA)	* / *	* / *	* * *	